Pollution Prevention Plan

for the

Environmental Laboratory

November 1996

US Army Corps
of Engineers
New England Division

POLLUTION PREVENTION PLAN

LOCATION:

ENVIRONMENTAL LABORATORY
AT BARRE FALLS DAM
BARRE, MASSACHUSETTS

PREPARED BY:

ENGINEERING DIRECTORATE
WATER CONTROL DIVISION
ENVIRONMENTAL ENGINEERING
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US Army Corps
of Engineers
New England Division

POLLUTION PREVENTION PLAN

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POLLUTION PREVENTION PLAN

1. INTRODUCTION

a. Background Information. Executive Order (EO) 12856, "Federal Compliance with Right-To-Know Laws and Pollution Prevention Requirements," provided in Appendix K, was signed by the President on 3 August 1993 to challenge the Federal Government to become a leader in pollution prevention, and be a good neighbor by providing local and State authorities with information concerning Federal Government use of toxic and hazardous chemicals and extremely hazardous substances.

The EO extends the coverage of the 1986 law "Emergency Planning and Community Right-to-Know Act" (EPCRA - 40 CFR 372) to Federal facilities. Private industry has been responding to the 1986 law since its inception, and the Federal community is now doing the same.

The requirements of EO 12856, and other related Environmental Executive Orders, were incorporated into a Comprehensive Pollution Prevention Strategy, and signed by the Secretary of Defense on 11 August 1994. This strategy is effected across all the Departments, including the Department of Army, and the Corps of Engineers. EO 12856 applies to all Departments of Defense, Department of the Army, and Corps of Engineers facilities within the territory of the United States; in effect, all Corps of Engineers civil works facilities and projects. New England Division's Environmental Laboratory is located at a civil works flood control project.

The Director of Civil Works issued a statement regarding the Corps policy for pollution prevention on 10 August 1995. He cited the environmental ethic and stewardship which are so much an integral part of the civil works community, and called upon the Corps family to embrace and implement all aspects of the President's EO.

One primary product of the EO is a Pollution Prevention Plan (P2 Plan) for "covered" Corps of Engineers civil works facilities and projects. Initially, projects and facilities reporting under any of the several sections of EPCRA are considered as "covered facilities," and have prepared plans leading to the reduction of pollution for their operations. Eventually, all facilities of any significant size will have a P2 Plan as a framework for pollution prevention and sound environmental practices.

Pollution prevention has as its focus the elimination or modification of activities to achieve a more desirable environmental end result. Pollution prevention includes any practice which reduces the amount of hazardous substances, pollutants, or contaminants entering the waste stream or otherwise released into the environment, prior to recycling, treatment, or disposal, and any practice which reduces the hazards to public health and the environment associated with the release of such substances, pollutants, or contaminants. The Corps of Engineers early efforts at pollution prevention were sometimes referred to as "waste minimization."

b. Pollution Prevention Strategy for the Corps of Engineers. The Corps of Engineers welcomes the President's vision as expressed in EO 12856 that . . . "Federal facilities will set the example for the rest of the country and become the leader in applying pollution prevention to daily operations, purchasing decisions, and policies . . . " The Corps reaffirms its obligations as a responsible neighbor in communities where our civil works facilities and projects are located. Pollution prevention at Corps facilities will not only reduce the amount of potentially harmful substances that are released, it will provide a safer environment for visitors, contractors, and employees, and a safer environment for communities near Corps facilities. Pollution prevention has the additional benefit of conserving our valuable and finite natural resources, and will prevent costly cleanup of facilities, waters, and lands. Corps participation in community right-to-know efforts will ensure that we are responsive to community needs and that our facilities appreciate their responsibility as part of the community.

The U.S. Environmental Protection Agency (EPA) recommends the following seven step process for pollution prevention.

- Develop Pollution Prevention Goals.
- Obtain Management Commitment.
- Establish a Pollution Prevention Team.
- Develop a Baseline.
- Conduct Pollution Prevention Opportunity Assessments.
- Develop Criteria and Rank Activities/Opportunities.
- Conduct a Management Review.

This document addresses the complete process, with a focus on what management needs to finalize a comprehensive pollution prevention program.

Pollution prevention opportunity assessments lead to identification of techniques and technologies to reduce waste generation. Pollution prevention opportunity assessments are achieved through in-house efforts, contracts with environmental firms, use of personnel from other Corps offices, with EPA or other regulators, or through combinations of these elements.

2. APPENDICES/DEFINITIONS

Appendices are provided to the project under separate cover.

Definitions of terms and acronyms used in this plan are listed in the Glossary in Appendix M.

3. PURPOSE AND OBJECTIVES

The Environmental Laboratory will fully support the Corps of Engineers pollution prevention policy and goals through the following specific objectives. By 1 January 1997, the facility will: (a) identify specific waste generating processes and develop a baseline inventory of major categories of wastes produced, and (b) prioritize waste problems and/or inefficiencies at this facility.

By 31 January 1997, the Environmental Laboratory will develop a strategy using the Pollution Prevention Opportunity Assessments and other technical sources to reduce the use of hazardous materials, minimize production of hazardous and other wastes, and eliminate pollutant emissions to the environment to the maximum extent technologically and economically feasible.

The Environmental Laboratory P2 Plan provides a strategy and list of action items to integrate pollution prevention into all activities and processes. The plan provides a process for development and implementation of a facilitywide, multimedia P2 Plan that will enable this facility to meet all pollution prevention plans and goals. The result will be more efficient operations, and a cleaner and safer working environment.

4. CORPS OF ENGINEERS PHILOSOPHY AND POLICY ON POLLUTION PREVENTION

As previously noted, pollution prevention is a "source reduction" approach to creating a better environment. It reaches beyond the end-of-pipe or end-of-stack solutions to avoid the generation of waste or environmental releases, and stresses the management of all environmental media (air,

land, water) together. The Corps subscribes to a hierarchy of options for managing waste. Source reduction is the most desirable, then recycling, treatment, and disposal complete the hierarchy. These options will be discussed in greater detail in this plan.

Pollution prevention can be achieved through a number of activities: process efficiency improvement, material substitution, inventory control, preventive maintenance, and improved housekeeping. Often these activities will require capital investments to implement. The basic cost of these pollution prevention actions may be significant; however, the savings or cost avoidance over a reasonable investment period due to reduced energy, materials, labor, compliance costs, or environmental consequences, make them cost effective. This "life-cycle" cost estimating is the recommended approach to implementing pollution prevention measures.

5. CORPS OF ENGINEERS GOALS IN POLLUTION PREVENTION

EO 12856 sets a goal of 50 percent reduction of toxic chemicals by 31 December 1999. The goal applies to the agency (Department of Army) in its use of toxic chemicals (facilities covered by section 313 of EPCRA). The Environmental Laboratory does not meet the requirements of section 313 (TRI) pollutants and does not report against the 50 percent reduction goal.

New England Division (NED) has set a target of 25 to 50 percent reduction of a river basin's waste stream by 31 December 1999. This goal is the sum total percent reduction at each water control project within the respective river basin. Because the Environmental Laboratory's waste is generated from their workload, this was not considered a reasonable reduction for them; therefore, target reduction is 15 to 25 percent. The baseline year for calculating the reduction of the Environmental Laboratory's waste stream is 1994. This year was chosen as a baseline to reflect the pollution prevention measures/waste reduction activities that were carried out prior to issuance of this plan.

Currently, laboratory personnel stock 3- to 4-month supplies of chemicals used in testing. In the past it took three months to receive shipments of these chemicals. New procedures have reduced shipments to less than one month. All chemicals should be reduced in stock to an estimated 2-month supply.

Page 6 is a worksheet designed to facilitate tracking the Environmental Laboratory's waste reduction. Total volume and percent reduction of each waste category should be calculated

each year. Percent reduction is calculated using the baseline year (1994). This worksheet allows Environmental Laboratory personnel to track the reduction of certain wastes and observe if they are on target for reaching their waste reduction goals.

Another goal for NED's water control projects is to reduce all hazardous substances/wastes to levels below reportable quantities/limits. The Environmental Laboratory is located at one of NED's water control projects and, therefore, should fall under this wherever reasonable. The reportable quantities/limits observed shall be the more restrictive of those set by the State or Federal Government.

Also, all chemical/oil storage tanks at the Environmental Laboratory shall have an approved secondary containment structure. An approved structure shall follow Federal Regulation 40 CFR 112.7 (see Appendix L) and the Corps of Engineers EM 385-1-1, section 09.B.27(d). Check the SPCCP/SCP for the Environmental Laboratory for additional information on secondary containment.

Following is a table summarizing the goals concerning pollution prevention. These goals are also listed in Appendix F, the Environmental Laboratory's Pollution Prevention Strategy Sheet, in the event subsequent goals need to be added.

ENVIRONMENTAL LABORATORY'S POLLUTION PREVENTION STRATEGY		
Goal	Established By	Target Date
Reduce stockpile of chemicals to 2-month supply	NED	1998
15 to 25% reduction of the total waste stream at the Environmental Laboratory.	NED	1999
Where possible, reduce all hazardous substances/wastes located at the Environmental Laboratory to quantities below reportable quantities/limits that are set by the MA DEP.	NED	1999
Provide approved secondary containment structures for all chemical/oil storage tanks located at the lab.	NED	1999

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Environmental Laboratory Waste Reduction Worksheet

Material	1994 (Baseline Year) Total Volume	1995 Total Volume	1995 % Reduction	1996 Total Volume	1996 % Reduction	1997 Total Volume	1997 % Reduction	1998 Total Volume	1998 % Reduction	1999 Total Volume	1999 % Reduction
Hazardous Wastes											
Petroleum, Oil, and Lubricants (POLs)	10 gal	10 gal									
Paints and Allied Products	0	0									
Chemicals and Solvents	165 gal	165 gal									
Asbestos	0	0									
Treated Wood	0	0									
Equipment/Vehicle Maintenance Wastes	0	0									
Other	275 gal*	275 gal*									
* waste in drums in hazardous waste storage shed											
Non-Hazardous Wastes											
Recyclable Wastes	48 cy	48 cy									
Compostable Wastes	0	0									
Non-recyclable Wastes	300 cy	300 cy									
Construction and Demolition	0	0									
White Metal Goods	0	0									
Tires	0	0									
Other	0	0									

6. ASSUMPTIONS

a. This plan is in effect and implemented continuously.

b. The Director of the Environmental Laboratory is responsible for pollution prevention.

7. FACILITY DESCRIPTION AND LOCATION

The New England Division's Environmental Laboratory, located at Barre Falls Dam, provides support to several Corps offices, including NED, in testing both environmental and hazardous samples for desired constituents.

Barre Falls Dam and reservoir are located in the north-central part of Massachusetts, in the towns of Barre, Hubbardston, Oakham, and Rutland, approximately 35 miles west of Boston, 18 miles northwest of Worcester, and 18 miles southwest of Fitchburg (see figure 1, Appendix A for location map).

8. ROLES AND RESPONSIBILITIES

a. Commander

(1) Exercise overall control of Division facilities, NED personnel, and contractor personnel who manage pollution-generating activities.

(2) Support programs and budgets for personnel, materials, equipment, and training required to implement pollution prevention strategies.

(3) Ensure coordination between various Division elements regarding the compliance of contractors and other pollution prevention partners.

b. Director of Engineering

(1) Exercise overall control of NED's Environmental Laboratory personnel, including those of the contractor, that manage or contribute to pollution generating activities.

(2) Ensure that pollution prevention measures accomplish acceptable reduction levels.

(3) Support programs and budgets for personnel, materials, equipment, and training required to implement pollution prevention strategies.

c. Environmental Compliance Coordinator

(1) Review and approve P2 Plan, revisions, and amendments.

(2) Integrate pollution prevention in the Division's Comprehensive Environmental Stewardship program and oversee field office staff concerning pollution prevention methods.

(3) Coordinate development of pollution prevention opportunity assessments and preparation of field office P2 Plans. Review plans for effectiveness and compliance with environmental regulations. Coordinate review of plans by internal Division elements and those outside NED.

(4) Prompt periodic reviews and evaluations of P2 Plans to monitor the performance of pollution prevention project (reviews will be conducted according to the schedule determined most appropriate [ERGO, etc.], or as significant waste stream changes occur). The periodic reviews will include whether more effective prevention and control applications are available for use in the facility's P2 program.

(5) Advise Director of Engineering when the P2 Plan is not in compliance with regulatory requirements.

d. Chief, Environmental Engineering and Hydraulics Branch

(1) Supervise production and review of P2 Plan for conformance and compliance with applicable Federal, State, and local regulations.

(2) Execute periodic technical reviews of P2 Plan.

e. Laboratory Director

(1) Exercise overall control of laboratory personnel who are involved in waste generating activities.

(2) Ensure that pollution prevention is accomplished to acceptable levels.

(3) Coordinate with non-Corps elements (e.g., contractors, State and local regulators, etc.) regarding compliance of contractors and waste generators.

(4) Maintain the P2 Plan on file at the Environmental Laboratory.

(5) Program and budget for personnel, materials, equipment, and training required for implementing pollution prevention strategies.

(6) Revise and resubmit the P2 Plan whenever there is a significant change in facility design, construction, operation, or maintenance which affects the facility's waste streams.

(7) Manage preparation and amendments of the Environmental Laboratory P2 Plan.

(8) Review deficiencies and initiatives to improve pollution prevention in the first month of each quarter and follow through to completion.

(9) Ensure that all waste streams at the lab are addressed in the P2 Plan.

(10) Perform periodic management actions to verify compliance with the P2 Plan in areas within the laboratory's responsibility. Maintain informal documentation to support inspections and any subsequent program revision.

(11) Prepare and update baselines for hazardous material use and waste generation.

(12) Perform periodic visual surveillance of areas under the laboratory's responsibility to verify compliance with this plan.

(13) Maintain any special equipment and material used for pollution prevention at the lab.

(14) Investigate potential pollution prevention opportunities as changes in waste streams occur.

(15) Coordinate the laboratory's pollution prevention training programs.

9. FUNCTIONS AND ACTIVITIES

a. Routine Activities. Typical activities at the Environmental Laboratory include shipping and receiving hazardous chemicals used in laboratory testing, testing environmental and hazardous samples, and handling hazardous waste. These activities require the handling of chemicals and hazardous materials.

Hazardous wastes, generated by laboratory personnel during testing, are stored in a waste shed located behind the

laboratory. The Environmental Laboratory manifests and disposes the waste using a licensed contractor.

The Environmental Laboratory is registered as a small quantity generator of waste oil with the Environmental Protection Agency (EPA). This registration, as a small quantity generator, addresses the issue of generating, handling, and disposing waste oil by laboratory personnel. The project's EPA small quantity generator ID number is MA796001268. The recommended procedure for laboratory personnel to follow when generating waste oil is outlined in the Spill Prevention, Control, and Countermeasure Plan/Spill Contingency Plan (SPCCP/SCP) for the Environmental Laboratory, which is available on site.

b. Oil Tanks. Petroleum product storage tanks are listed in Appendix B, "Oil Storage Tank Inventory," which includes tank number, location, capacity, installation date, type, material of construction, fuel-type stored in tank, purpose of fuel or usage, and whether the tank has secondary containment, leak detection, or cathodic protection. Locations of these tanks are shown on figure 3 in Appendix A.

c. Hazardous Material Storage. The central hazardous materials storage area for the laboratory is located in the garage behind the laboratory; this garage has no ventilation system. One 45- and three 60-gallon flammable storage cabinets are located in the rear of the garage. Two of the 60-gallon cabinets and the 45-gallon cabinet contain gasoline used for generators and flammable chemicals such as acetone, methanol, methyl alcohol, and hexane. No more than three flammable storage cabinets, containing not more than 60 gallons each of Classes I or II (acetone and hexane) or 120 gallons of Class III liquids shall be stored in the chemical storage areas. Cabinet vents are sealed with bung plugs, leaving the cabinets without ventilation. These cabinets are grounded to the structural steel of the building. Excess methylene chloride and freon are stored on shelves in the garage. Another storage cabinet, which is not flameproof, holds acids and bases.

The storage cabinets are designed to contain chemicals spilled within them. If the methylene chloride or freon on the shelves were to spill, however, it would spread on the garage floor. Since the wall/floor joints are not sealed, this is not an approved secondary containment, as defined under 29 CFR 1910.106(d)(4). Also, the ventilation system in the garage is not an approved system, as defined under NFPA 30, chapter 4-4.1.6 and under EM 385-1-1, section 09.B.24. The ventilation system does not provide an approved component of a contingency plan in case of a spill.

Hazardous materials are also stored in various locations within the laboratory. The laboratory is broken into several smaller labs including the biology, metals prep, organic prep, trace metals and wet chemistry labs (see figure 4 in Appendix A). In the biology lab, chemicals including sulfuric acid are stored under fume hoods, and a small flammable storage cabinet is used to store small propane cylinders. Most chemicals in the laboratory itself are stored in the organics lab. Cabinets under fume hoods contain acids, acetone, hexane, methylene chloride, methanol, alcohol, and other hazardous chemicals. The hoods have ventilation, which is used when chemicals underneath are open. Some storage spaces underneath the hoods are also vented. Fume hood cabinets are clearly marked as to which chemicals should be stored in them. This ensures that noncompatible chemicals are kept apart. The metals lab contains small quantities of chemicals including concentrated acid, nitric acid, hydrogen peroxide, oxidizers, and acids. Waste areas are located in the organic and trace metals prep labs, where 4-gallon plastic jugs contain hazardous waste until transferred to the hazardous waste shed. These jugs are not all marked with the type of waste and did not indicate hazardous, toxic, corrosive, reactive, or flammable characteristics.

In each room, chemicals in use are in the hoods themselves. In general, throughout the laboratory, some chemicals are being stored in plastic tubs for secondary containment, while others are not. Current practice in the lab is to utilize secondary containment when storing incompatible chemicals in the same cabinet and for glassware containing hazardous materials which are unstable and could tip over.

Many chemical containers were unlabeled throughout the laboratory. All containers of hazardous materials and hazardous waste must be identified as required by 29 CFR 1910.1200 Hazard Communication Standard. This label must contain the identity of the contents and appropriate hazard warnings. It is critical that the identity of the chemical be known in case of a spill.

The former dam operator's house is located at the beginning of the access road (see figure 2 of Appendix A). This building is currently used for storage of equipment and supplies by laboratory field personnel. In the garage, a 25-gallon flammable storage cabinet contains methanol, propanol, and other chemicals. This cabinet is vented to the garage, which is small and has no ventilation and, therefore, does not provide an approved component of a contingency plan in case of a spill.

A copy of the laboratory's current chemical inventory, stored in the garage and laboratory, is kept in the administrative office on the second floor of the laboratory. The existing inventory, as of 17 August 1995, should be updated before January 1997. In Appendix C of this plan, space is provided for the Laboratory Director to place a copy of the updated chemical inventory. Material Safety Data Sheets (MSDS) for hazardous materials on site are kept in the laboratory library. If there is not an MSDS available, the chemical should not be used. MSDS sheets are requested for any new chemical at the time of ordering. If an MSDS has not arrived before or at the time of delivery, the order will be refused.

Some items on the current inventory are considered hazardous under 40 CFR 302. The amount of hazardous substance(s) at the laboratory is under most of the Federal Reportable Quantities (RQ).

Under Massachusetts Regulations that govern hazardous materials (310 CMR 40.1600), several chemicals at the laboratory are at or over the RQ. State reportable quantities are lower than Federal for most chemicals. Some products listed are under the Massachusetts RQ, but in a worst case scenario where more than one chemical were to spill, the total combination could be above the RQ. Appendix D contains an inventory of chemicals at the laboratory, reportable quantities for hazardous substances determined by the Massachusetts Department of Environmental Protection, and Federal RQs, as defined and tabulated under 40 CFR 302.

d. Hazardous Waste Storage Shed. Waste generated at the laboratory consists of both hazardous and solid waste. Hazardous waste is currently stored in 4-gallon plastic jugs in the laboratory until it is transferred to the hazardous materials storage shed. The shed, which is a small concrete building, is located behind the laboratory. It has six small wall vents, three located 3 inches above the floor, and three just below the ceiling. Waste is stored in 55-gallon drums in the shed; some containers are plastic and others steel. These drums have no secondary containment. Since the wall/floor joints are not sealed, this is not an approved secondary containment, as defined under 29 CFR 1910.106(d)(4). Also, the ventilation system in the shed is not an approved system, as defined under NFPA 30, chapter 4-4.1.6 and under EM 385-1-1, section 09.B.24. The ventilation system does not provide an approved component of a contingency plan in case of a spill.

The drums are labeled with all known contents, and the date when first placed in the container. As an EPA small quantity hazardous waste generator, all waste must be shipped from the premises within 180 storage days.

A new hazardous waste shed has been ordered and, according to laboratory personnel, should be on site by December 1996.

e. Waste Streams. Areas at the laboratory where waste streams may be generated are listed below. Also included are the type of waste streams that may be produced.

(1) Areas for receiving material generate wastes such as packaging materials, damaged containers, spill residue, and fuel oil transfer line leakage.

(2) Storage areas (e.g., garage and hazardous waste storage shed) may generate wastes in the form of tank bottoms, off-specification and excess materials, spill residue, leaking pumps, valves, pipes, and damaged or empty containers.

(3) Areas where samples are tested and handled can produce solvent wastes and air emissions of chemicals.

Appendix E contains a list of specific processes that may occur at the laboratory, and associated wastes generated by these processes.

10. JURISDICTION

The Massachusetts Department of Environmental Protection (DEP), Central Region Office (telephone: 508-792-7653), and the U.S. Environmental Protection Agency, Region I, Boston, Massachusetts (telephone: 617-223-7265) are the State and Federal agencies coordinating with laboratory personnel regarding pollution prevention.

11. ENVIRONMENTAL REVIEW GUIDE FOR OPERATIONS (ERGO) PROGRAM

The Environmental Laboratory complies with Corps policy and is assessed for environmental compliance by an external team every five years. An environmental compliance assessment of the project was conducted by an interdisciplinary team of New England Division environmental professionals (external team) on 7 May 1996. The assessment was conducted as part of the Corps ERGO program, which establishes the use of environmental compliance assessments to ensure compliance with all applicable Federal, State, local, Department of Defense (DOD), and U.S. Army Laws and

Regulations. This facility's next external assessment is scheduled for 2001.

Each year the laboratory performs a self-assessment of the project's environmental compliance status.

12. SCOPE OF POLLUTION PREVENTION PLAN

The P2 Plan applies to all activities at the laboratory.

Concession, outgrant, and lease area activities are not considered in the laboratory P2 Plan; however, all non-Corps activities will be encouraged to implement similar pollution prevention strategies.

13. UPDATE FREQUENCY

The laboratory P2 Plan should be updated every five years during the same year as the ERGO external assessment. The next update is scheduled for 2001.

Scheduling of P2 Plan updates at the same time as ERGO assessments leads to improved coordination, preventing duplication of work. The P2 Plan update will address changes in policy and procedures, product substitutions, process changes, and other pertinent information. The review and updating will include a summary of goals met and revised objectives.

14. TRAINING

To implement a successful pollution prevention program, communication and training are crucial to convey up-to-date information, and to foster a pollution prevention ethic that is supported by the entire facility staff. Since 1993 the Corps has provided information and guidance to Division Environmental Compliance Coordinators (ECCs) on compliance with EO 12856 and other Pollution Prevention Executive Orders and Policy Directives. Headquarters, Environmental Compliance Branch of Operations, Construction and Readiness Division, (CECW-OA) will continue providing information on policy and regulations through the Division ECC, who will forward information to each basin. While there are no specific requirements for pollution prevention training, all facility staff will receive pollution prevention awareness and energy efficiency training. This training may take place during biweekly safety meetings. Technical information on pollution prevention strategies and training opportunities may be obtained from sources outside the Corps such as State EPA Pollution Prevention Coordinators. Additional sources of pollution prevention information can be found in Appendix I.

15. PUBLIC INFORMATION

Executive Order 12856 requires projects and facilities to provide the public with access to their pollution prevention plans and programs. In compliance with this EO, these plans will be maintained onsite for review by the public, EPA, and State regulators; a copy will be provided to regulatory agencies upon request.

16. COORDINATION WITH CONTRACTING AND LOGISTICS DIRECTORATES

In order to comply with pollution prevention requirements, changes in purchasing materials or contracting for services may be necessary. Executive Order 12873 requires that Federal agencies procure products that are environmentally preferable or made with recycled materials. Executive Order 12843 requires that Federal agencies maximize use of alternatives to ozone-depleting substances. Executive Order 12845 requires that new computer purchases meet "Energy Star" efficiency requirements. New requirements will continue to be developed. Technical specifications and General Services Administration (GSA) contracts may not all be up-to-date on these requirements.

The Laboratory Director will coordinate closely with the Division Contracting and/or Logistic staff to ensure that all future purchases and disposal actions are not only in compliance with specific requirements, but also support the project and agency goals for pollution prevention.

17. IMPLEMENTATION GUIDANCE

Following are guidelines for management of wastes at the laboratory project:

a. Waste should be reduced at the source whenever possible.

b. If it is determined that the waste can be recycled, it should be done to the fullest extent possible.

c. Wherever possible and economically practical, non-toxic/hazardous replacements for hazardous materials should be used.

d. Storage, disposal, and recycling of wastes should comply with all appropriate Federal, State, local, and U.S. Army Regulations/requirements.

e. Hazardous waste should be safely controlled, accounted for with an audit trail and chain of custody, and handled in accordance with legal requirements.

For specific management practices of hazardous and non-hazardous wastes, refer to appropriate Federal, State, and local regulations/guidelines.

18. IMPLEMENTATION PLANS

a. Recycling. A comprehensive recycling program should be established at the Environmental Laboratory. All wastes should be identified as recyclable or nonrecyclable. To determine which materials are recyclable, refer to the Massachusetts Recycling Services Directory in Appendix H. Materials and activities at the laboratory that produce the materials considered recyclable by the MA DEP are listed in Appendix G.

The Recycling Services Directory lists vendors who accept, collect, or purchase recyclable materials in Massachusetts and adjoining States. The recycling program developed at the laboratory should utilize vendors in the directory. All nonrecyclable waste should be disposed of properly.

b. Hazardous and Nonhazardous Wastes. All wastes should be segregated and identified as hazardous or nonhazardous. Waste definitions are shown in Appendix M.

Hazardous and nonhazardous wastes have different disposal requirements (see State Regulations for specific requirements); segregation of wastes will streamline the disposal process.

c. Substitute Products. Laboratory personnel shall purchase and use alternative, nontoxic products in place of hazardous materials where feasible.

The Defense Logistics Agency (DLA) provides catalogs listing products and their respective alternatives. To order these catalogs or request information on alternative products call DLA at 1-800-345-6333. Appendix J contains a list of various centers within the DLA supplying information on alternative products.

d. Purchasing of Products. Purchase of paints, pesticides, and other hazardous substances should be kept to a minimum, or on an "as needed" basis. The laboratory should store as little chemicals as possible to perform their

workload. Any residual quantity should be disposed of in compliance with Federal and State Regulations.

e. Material Safety Data Sheets (MSDS). MSDS for all inventory products should be kept on file at the project. For products no longer on site, the respective MSDS should be removed from the file. An accurate inventory of products used, location, and quantities on hand shall be kept at the project to assist in managing of MSDS.

f. Freon. Presently there is a large quantity of freon at the laboratory. The Laboratory Director will devise a plan for reducing and disposing the surplus in accordance with all appropriate regulations and in an environmentally safe manner. The plan shall establish a specific reduction goal (percentage reduced and by what year).

g. Hazardous Waste Disposal. All hazardous waste should be disposed of through a licensed hauler and sent to a licensed facility. A hazardous waste manifest will accompany all materials, and appropriate record keeping will be maintained. Only laboratory personnel authorized by the Division Commander may sign/execute the manifests. This authorization must be in writing and stating the employee is within the scope of work when executing these documents. All records pertaining to hazardous waste shall be maintained at the project office for three years.

Pollution Prevention Plan

for the

Environmental Laboratory

APPENDICES

November 1996

US Army Corps
of Engineers
New England Division

POLLUTION PREVENTION PLAN

APPENDICES

LOCATION:

ENVIRONMENTAL LABORATORY
AT BARRE FALLS DAM
BARRE, MASSACHUSETTS

PREPARED BY:

ENGINEERING DIRECTORATE
WATER CONTROL DIVISION
ENVIRONMENTAL ENGINEERING
AND HYDRAULICS BRANCH

US Army Corps
of Engineers
New England Division

APPENDICES

The following are appendices for the Environmental Laboratory P2 Plan. Appendices A, B, C, and D are available at the laboratory and will be inserted by the Laboratory Director.

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A	Figures
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Appendix A

Figures

Appendix B

Oil Storage Tank Inventory

Appendix C

Chemical Product Inventory

Appendix D

Listing of Oil and Hazardous Substances and Reportable Quantities

Appendix E

Laboratory Activities and Related Wastes

LABORATORY ACTIVITIES AND RELATED WASTES

Process Source	Waste Examples
Air Emissions	
Solvent Volatiles	Solvent VOCs
Vehicle Emissions	Carbon Monoxide
Hazardous Wastes	
Sample testing	methylene chloride, acetone, sulfuric acid
Products with Expired Shelf Life	Expired shelf life wastes such as paints, solvents, cleaning materials, etc.
Facility Maintenance	Cleaning supplies/chemicals, illegally dumped waste (drums, roofing shingles etc.)
Spill Cleanup	Absorbent, rags, booms, pigs, drip pans, contaminated soil
Solvents/Degreasing/Cleaning	Cleaning solvents, Methyl Ethyl Ketone (MEK)
Equipment Maintenance	Cleaning solvents, lubricating oils & greases
Other Wastes	
Office Operation	Paper, shipping and packing materials, newspapers, containers (plastic, glass, metal), household batteries, fluorescent lamps & ballasts
Construction/Renovation	Asphalt, construction debris (concrete, lumber, etc.)

Appendix F

Environmental Laboratory's Pollution Prevention Strategy Sheet

ENVIRONMENTAL LABORATORY''S POLLUTION PREVENTION STRATEGY SHEET

GOAL	ESTABLISHED BY	TARGET DATE
Reduce stockpile of chemicals to two month supply.	NED	1998
15 to 25% reduction of the total waste stream at the Environmental Laboratory.	NED	1999
Reduce all hazardous substances/wastes located at the laboratory to quantities below reportable quantities/ limits that are set by the MA DEP.	NED	1999
Provide approved secondary containment structures for all chemical/oil storage tanks located at the laboratory.	NED	1999

Appendix G

Recyclable Items at the Environmental Laboratory

RECYCLABLE ITEMS AT THE ENVIRONMENTAL LABORATORY

Operation	Recyclable	Description
Office Operation	Paper	-High grade office paper (computer paper, stationary bond, copy machine paper, miscellaneous plain paper) -Newspaper -Magazines -Cardboard
	Food and Drink Containers	-Glass -Metal (aluminum, tin) -Plastic - Polyethylene Terephthalate (PET), High Density Polyethylene (HDPE), Polyvinyl Chloride (PVC), Low Density Polyethylene (LDPE), Polypropylene (PP), Polystyrene (PS), Other -Aseptic packaging (paper milk cartons, drink boxes)
	Batteries (other than car batteries)	-Nickel cadmium batteries
Construction/ Renovation	Construction and Demolition Debris	-Asphalt, bricks, concrete (ABC), soil, rock, wall coverings, drywall, plumbing fixtures, insulation, roofing shingles, glass, metal, wood waste, electrical wires
Facility/Project Maintenance	Yard Waste & Composting	-Prunings, bulky wood yard waste (e.g. trees, large branches, and stumps), leaves, grass clippings

Appendix H

Massachusetts Department of Environmental Protection Recycling Services Directory

RECYCLING SERVICES DIRECTORY
and Markets Guide for Massachusetts

November, 1995

Massachusetts Executive Office of Environmental Affairs
Department of Environmental Protection
Division of Solid Waste Management
One Winter Street, 4th Floor
Boston, MA 02108

Compiled and Produced by WasteCap of Massachusets, phone: (617) 236-7715

The ***Recycling Services Directory*** lists vendors who accept, collect or purchase recyclable materials from Massachusetts communities and businesses. This resource supplements local yellow pages by describing markets for recyclables across the state. The Department of Environmental Protection (DEP) welcomes additions and corrections to either the recyclable material or vendor categories. Please complete and return the attached "update form". Listings are subject to change, and do not represent endorsement by the DEP.

To receive free copies of the ***Recycling Services Directory***, call the DEP InfoLine at 617-338-2255 (from within the 617 area code or outside Massachusetts) or 800-462-0444 (from 413 and 508 area codes) or return the order form on the last page.

Table of Contents

Contents:

ANTIFREEZE **Page 23**

See "Miscellaneous Wastes: Automotive". Like many automotive hazardous and miscellaneous wastes (tires, car batteries, motor oil), antifreeze is routinely and professionally handled at scrap auto yards.

ASEPTIC, BOTTLES AND CANS **Page 5**

Food and drink containers are grouped together because many companies collect both bottles and cans. Deposit containers are the easiest to recycle -- take the item back to your grocer or cooperative food market, or look under "redemption" in the yellow pages. Non-deposit containers, such as juice bottles, steel (tin) cans, and aluminum trays should be rinsed and free of stray materials. Aseptic packaging (paper milk cartons, drink boxes) is a newcomer to recycling, but they now have proven recycling markets when processed correctly.

ASPHALT **Page 20**

See "Wood, Construction and Demolition Debris". Prices charged are considerably less than landfill fees. The asphalt is smashed into aggregate, and reused as paving material.

BATTERIES (Other than Car Batteries) **Page 25**

See "Miscellaneous Wastes: Batteries". Batteries come in many forms. Dry/button cell batteries power watches, calculators, flashlights, cameras, toys, etc. To prevent the metal content -- mercury, lead, cadmium, or a combination of these -- from getting into the environment through incinerator emissions or as leachate from landfills, communities are encouraged to establish a battery collection program. Also, contact your solid waste service company to learn what concerns they have about particular batteries going to their facility. They may be willing to assist your community with a collection program. Additionallly, Rechargeable Battery Recycling Corporation (RBRC) has an information hotline for recycling rechargeable nickel cadmium (nicad) batteries, often used in cam corders, cordless telephones, two-way radios, etc. Call 1-800-8BATTERY for more information.

CAR BATTERIES **Page 25**

See "Miscellaneous Wastes: Automotive". Individual car batteries can be returned to their place of purchase. For large quantities, most battery hauling and recycling firms require that batteries be stacked on a pallet and be free of cracks or leaks. Some firms require that all wet cell caps be intact and that the pallet be banded, boxed or otherwise held in place. The seller may have to provide a forklift for loading the buyer's vehicle. Because they can cause serious harm to water tables, car batteries have been restricted from disposal at landfills and incinerators as per regulation CMR 19.017. For more information, please refer to DEP's *Comprehensive Guidance to Solid Waste Disposal Facilities For Implementation of Disposal Restrictions*, 1995. Call (617) 338-2255.

CONSTRUCTION & DEMOLITION DEBRIS **Page 20**

See "Wood, Construction and Demolition Debris". Also know as "C&D" debris, the category includes asphalt, bricks, concrete (ABC) and other masonry materials, soil, rock, wall coverings, drywall, plumbing fixtures, insulation, roofing shingles, glass, metal, wood waste and electrical wires. On-site sorting of debris by material allows for the best reuse of material.

Recycling conserves more than landfill space. It also conserves energy, natural resources, and jobs. Massachusetts industries convert the recyclables you collect into over $600 million in products. By recycling, you contribute to the ten thousand jobs in the state which depend on recycling, and trigger the investments which depend upon a steady supply of recycled materials. THANK YOU FOR RECYCLING!

● ASEPTIC, BOTTLES AND CANS

(See also your yellow pages yellow pages under: "Recycling", "Redemption Centers", or "Rubbish Haulers")

COMPANY NAME	MATERIALS	CITY	TELEPHONE
Dave's Soda & Pet Food City	Alum, Glass	Agawam	(413) 786 - 3339
King Road Materials	Glass	Albany, NY	(518) 382 - 5353
Harvest Cooperative Supermarket	Alum, Glass, Tin	Allston	(617) 556 - 1049
Boston Food Coop	Alum, Glass, Tin	Allston	(617) 787 - 1417
N A Nichols Co., Inc.	Alum, Tin	Amesbury	(508) 388 - 9639
Waste Management Inc.	Glass	Attleboro	(508) 823 - 5133
Browning-Ferris Industries	Alum, Glass, Tin	Auburn	(508) 832 - 9001
S Spiegel Co.	Alum, Tin	Avon	(800) 696 - 9921
Redemco Inc.	Alum, Glass, Tin	Avon	(508) 584 - 8200
Eustic Recycling Corporation	Alum	Avon	(508) 583 - 5700
Universal Disposal & Recycling Co	Glass	Becket	(413) 623 - 6021
P T I America Co.	Alum, Glass, Tin	Berlin	(508) 838 - 0223
Plastics and Metals Industries	Alum	Blodgett Mills, NY	(607) 756 - 7732
Boston Bottles & Cans	Alum, Glass	Boston	(617) 269 - 9783
Harcon Corporation	Alum	Boston	(617) 542 - 3300
Pine Street Inn	Alum, Glass	Boston	(617) 482 - 4944
Hyde Park-Dedham B&C Return	Alum, Glass	Boston	(617) 361 - 3441
South Boston Redemption Center	Alum, Glass	Boston	(617) 269 - 5970
Browning-Ferris Industries	Alum, Glass, Tin - Curbside	Boston	(617) 265 - 0500
Castle Metal Co.	Alum, Tin	Boston	(617) 482 - 7332
Boston Can	Alum, Glass, Tin	Boston	(617) 247 - 3120
Cambridge-Lee Industries	Tin	Boston	(617) 783 - 3100
Brighton Bottle & Can Redemption	Alum, Glass	Boston	(617) 782 - 2050
Roslindale Discount Food & Bottle Red	Alum, Glass	Boston	(617) 325 - 5131
Braintree Bottle & Can Return	Alum, Glass	Braintree	(617) 356 - 4320
Brockton Iron & Steel	Alum, Tin	Brockton	(508) 586 - 4640
Browning-Ferris Industries	Alum, Glass, Tin - Curbside, Commingled	Brockton	(508) 580 - 1511
Better Bottle & Can Redemption	Alum, Glass	Burlington	(617) 273 - 1373
Burlington Recyclers	Glass	Burlington	(617) 229 - 5790
Prins Recycling Center	Alum, Glass, Tin, Asep - Curbside, Commingle	Charlestown	(617) 242 - 7746
Advance	Alum, Glass, Tin	Chelmsford	(508) 250 - 4800
M Burnstein & Co., Inc.	Alum, Tin	Chelsea	(617) 884 - 7700
Delmolino Trucking	Glass	Cheshire	(413) 743 - 5397
Callahan Trucking	Alum, Glass, Tin - Curbside	Cheshire	(413) 442 - 8390
Clean Environment Co.	Alum, Glass	Chicopee	(413) 593 - 1306
Partyka Resource Management	Alum, Glass, Tin - Curbside	Chicopee	(413) 785 - 1581
Kane Scrap Iron & Metal Co.	Alum	Chicopee	(413) 593 - 1306
Browning-Ferris Industries	Glass	Chicopee	(800) 224 - 6234
Recycling Services, Inc.	Alum, Glass, Tin	Claremont, NH	(603) 542 - 8755
Advanced Recycling	Alum, Tin	Concord, NH	(800) 227 - 3911
Berkshire Clean-Way	Glass	Dalton	(413) 684 - 0165
Anchor Glass Container Corp.	Glass	Dayville, CT	(203) 774 - 9636
Codman Square Redemption	Alum, Glass	Dorchester	(617) 287 - 0013
Pure Tech Plastics, Inc.	Alum	East Farmingdale, NY	(516) 755 - 1124
N E Appliance Recovery Systems	Alum, Glass, Tin	East Freetown	(508) 763 - 3900
Capital Paper Recycling Inc.	Alum, Glass, Tin	East Weymouth	(617) 337 - 9807
Somers Sanitation	Alum, Tin	East Windsor, CT	(203) 623 - 2070
Alco Recycling Co.	Glass	Edison, NJ	(908) 225 - 9550
Minichiello Bros.	Alum	Everett	(617) 389 - 7213
Prolerized New England Co.	Alum	Everett	(617) 389 - 8300
Browning-Ferris Industries	Glass	Fall River	(508) 678 - 8860

ASEPTIC, BOTTLES AND CANS (Cont.)

Conigliaro Industries	Alum, Glass, Tin	Framingham	(508) 872 - 9668
Container Recycling Alliance	Alum, Glass, Tin	Franklin	(508) 541 - 4600
Roger Trucking	Glass	Great Barrington	(413) 528 - 3590
R Kelly Freedman & Sons, Inc	Alum, Tin	Green Island, NY	(518) 273 - 1141
Kramer Scrap Division	Alum, Tin	Greenfield	(413) 774 - 3103
Martin's Farm	Alum	Greenfield	(413) 774 - 5631
Hudson Trucking	Alum, Glass, Tin	Greenfield	(413) 773 - 9677
Day's Recycling	Alum, Glass, Tin - Curbside	Greenfield	(413) 772 - 0364
Dave Wickles Trucking	Alum, Glass, Tin	Hatfield	(413) 247 - 9231
P & T Recycling Services	Alum, Glass, Tin - Curbside	Haverhill	(800) 692 - 0009
Browning-Ferris Industries	Alum, Glass, Tin, Asep - Curbside, Commingle	Hooksett, NH	(603) 669 - 2282
M O S A	Alum, Glass, Tin	Howes Cave, NY	(518) 296 - 8884
Clarke Distributors	Alum	Keene, NH	(603) 352 - 0344
Black Diamond Trucking	Glass	Lanesboro	(413) 447 - 7741
Browning-Ferris Industries	Glass	Latham, NY	(518) 785 - 7030
Atlantic Waste Systems, Inc.	Alum, Glass, Tin - Curbside	Lynn	(617) 581 - 2410
Can Man Redemption Center	Alum, Glass	Malden	(617) 322 - 7541
Container Recycling Alliance	Glass	Mansfield	(508) 339 - 6067
Vining Co. / Environmental Ideas	Alum, Glass, Tin - Curbside	Medford	(617) 279 - 0006
C B Trucking	Curbside	Medway	(508) 533 - 4584
Foster Forbes	Glass	Milford	(508) 478 - 2500
Frank Rubbish Removal	Alum, Glass, Tin - Curbside	Millbury	(508) 865 - 5935
C T Metal Industries	Alum, Tin	Monroe, CT	(203) 268 - 5909
Cody & Tobin Inc	Alum	New Bedford	(508) 999 - 6711
A A A Recycling Sales & Services	Alum, Glass, Tin	New Bedford	(508) 999 - 9331
A W Martin, Inc.	Glass	New Bedford	(508) 933 - 4359
A & A Redemption Inc.	Alum, Glass,Tin	New Bedford	(508) 995 - 3361
Master Garbologist	Alum, Glass, Tin - Curbside	New Marlboro	(413) 229 - 3442
Tetra Pak, Northeast Region	Asep-Drink Boxes, Milk Crtns	New York, NY	(212) 551 - 3227
Hudson Baylor Corp.	Glass	Newburgh, NY	(914) 561 - 0167
Asian Export Material Co.	Alum, Foil	Newton	(617) 332 - 7929
Shapiro & Sons, Inc.	Alum, Tin	North Adams	(413) 663 - 6525
Environmental Action	Alum, Glass, Tin - Curbside	North Adams	(413) 664 - 4936
George Apkin & Sons, Inc.	Glass	North Adams	(413) 664 - 4936
North Atlantic Recycling Svcs.	Alum, Glass	North Andover	(508) 682 - 5442
Atlantic Stainless Co., Inc.	Tin	North Attleboro	(508) 695 - 6262
Miller Recycling Corporation	Alum, Tin	North Attleboro	(800) 783 - 6766
Clean Environment Co.	Alum, Glass, Tin - Curbside	North Billerica	(508) 250 - 4800
A B C Redemption Center	Alum, Glass	North Plymouth	(508) 747 - 1774
Duseau Waste Industries Inc.	Alum, Glass, Tin, Asep - Curbside	Northampton	(413) 586 - 4100
P Allen & Sons Inc.	Alum, Tin	Northampton	(413) 584 - 3040
Norwood Redemption Center	Alum, Glass	Norwood	(617) 769 - 7036
United Paper Stock Co. Inc.	Alum	Pawtucket, RI	(401) 724 - 5700
Vicon Recovery Associates	Glass	Pittsfield	(413) 443 - 7373
Allways Fibre Recycling Inc.	Alum, Glass, Tin	Pittsfield	(413) 499 - 1522
South Shore Recycling	Glass	Plymouth	(508) 830 - 0030
Maine Beverage Container	Alum, Glass	Portland, ME	(207) 774 - 0735
Bottle and Can Return	Alum, Glass	Quincy	(617) 471 - 8552
Laidlaw Waste Systems	Alum, Glass, Tin - Curbside	Revere	(617) 289 - 0500
Revere Bottle & Can Return	Alum, Glass	Revere	(617) 289 - 2765
Jet-A-Way / Kemble Waste	Alum, Glass, Tin	Roxbury	(617) 541 - 4000
Universal Steel & Trading Corp.	Alum, Tin	Salem	(508) 744 - 0124
North Shore Recycled Fibers	Alum, Glass, Tin	Salem	(617) 289 - 9400
Commercial Recycling and Paving Co.	Glass	Scarborough, ME	(207) 883-3325
Repak, Inc.	Glass	Shirley	(508) 425 - 2399
We Cycle Inc	Alum, Glass, Tin	Shrewsbury	(508) 842 - 0460
Innovative Waste Services Inc.	Alum, Glass, Tin	Somers, NY	(914) 232 - 2237
Prospect Iron & Steel Corp.	Alum, Tin	Somerville	(617) 666 - 3405

ASEPTIC, BOTTLES AND CANS (Cont.)

Highland Redemption Center	Alum, Glass	Somerville	(617) 623 - 0366
Sav-Mor Discount	Alum, Glass	Somerville	(617) 628 - 6444
Atlas Metals, Inc.	Alum	Somerville	(617) 666 - 8440
H Cohen & Sons	Alum, Tin	South Boston	(617) 542 - 3300
D & D Welding & Salvage	Alum, Tin	Southbridge	(508) 765 - 5119
Springfield Materials Recovery Facility	Alum, Glass, Tin, Asep - Curbside, Commingle	Springfield	(413) 784 - 1100
Harry Goodman & Sons	Clear Glass	Springfield	(413) 785 - 5331
Cans to Cash	Alum, Glass	Springfield	(413) 781 - 1159
Resource Recovery Systems Inc.	Alum, Glass, Tin, Asep	Springfield	(203) 767 - 7057
Joseph Freedman Co., Inc.	Alum, Tin	Springfield	(413) 781 - 4444
Stratford Baling Co.	Alum, Glass, Tin	Stratford, CT	(203) 377 - 7491
Cans Are Us	Alum, Glass	Sturbridge	(413) 543 - 2432
All-Brands Container Recovery	Alum, Glass, Tin	Wakefield	(800) 439 - 2267
Wakefield Can & Bottle Redemption	Alum, Glass	Wakefield	(617) 245 - 3504
Waste Management Inc.	Alum, Glass, Tin	Wakefield	(617) 246 - 4210
Container Services- Waste Mgmt. Inc.	Alum, Glass, Tin	Walpole	(508) 660 - 1804
Waltham Bottle & Can Inc.	Alum, Glass	Waltham	(617) 647 - 4754
Recycling Enterprises	Glass	Webster	(508) 949 - 2797
Waste Management of Central Mass	Alum, Glass, Tin - Curbside	West Boylston	(800) 698 - 8785
Automated Recycling	Alum, Glass, Tin - Curbside, Commingled	West Bridgewater	(800) 640 - 7565
Commercial Disposal Inc.	Glass	West Springfield	(413) 443 - 9474
S E M A S S Recycling	Alum, Glass, Tin	West Wareham	(508) 291 - 2122
E L Harvey & Sons	Alum, Glass, Tin	Westborough	(800) 321 - 3002
Mid City Scrap & Salvage	Alum, Glass, Tin	Westport	(508) 675 - 7831
A G Bettencourt, Inc	Glass	Westport	(508) 636 - 4009
Weymouth Can & Bottle Return	Alum, Glass	Weymouth	(617) 337 - 4048
Wood Enterprises	Clear Glass	Whately	(413) 665 - 7634
E C Whitney & Son.	Alum	Wilmington	(508) 658 - 8151
Goldstein Scrap Metal	Alum	Worcester	(508) 754 - 5711
Patriot Metals	Tin	Worcester	(508) 798 - 3333

OFFICE AND COMPUTER SUPPLIES

(See also your yellow pages under: "Computer or Office Supplies", or "Recycling, Toner-Cartridge")

Waste Management Inc.	Electron Equip	Attleboro	(508) 823 - 5133
Ingenuity Corp.	Electron Equip	Barnard, VT	(802) 243 - 5198
Universal Disposal & Recycling Co.	Electron Equip	Becket	(413) 623 - 6021
w T e Corporation	Electron Equip	Bedford	(617) 275 - 6400
Plastics and Metals Industries	Electron Equip	Blodgett Mills, NY	(607) 756 - 7732
Boston Can	Laser Printer Cartridges	Boston	(617) 247 - 3120
East West Educ. Devel. Foundation	Outdated Computer Equip	Boston	(617) 542 - 1234
LaserSaver	Laser & Copier Toner Cartridges	Bridgewater	(508) 697 - 2888
Media Recovery Inc.	Mag Tape, Comp Ribbons, Cartr	Canton	(617) 821 - 2350
Advanced Recycling	Electron Equip	Concord, NH	(800) 227 - 3911
Multi-Products Recycling Facility	Electron Equip	Dorchester	(617) 825 - 7615
Capital Paper Recycling Inc.	Toner Cartridges	East Weymouth	(617) 337 - 9807
Nashua Corporation	Laser Printer Cartridges	Exeter, NH	(800) 333 - 3439
Conigliaro Industries	Electron. Equip., Toner Cartridges	Framingham	(508) 872 - 9668
R Kelly Freedman & Sons, Inc.	Electron Equip	Green Island, NY	(518) 273 - 1141
G & A Recycling	Electron Equip	Leominster	(508) 534 - 5696
Omni, Inc.	Computer Keyboards & Mice	Lowell	(508) 934 - 5004
Electronics Processing Assocs.	Computers, Electron Equip	Lowell	(508) 970 - 2700
R S T Reclaiming, Inc.	Electro Equip	Lowell	(508) 453 - 3425
Aurora Electronics	Computers, Printed Circuit Boards	N. Andover	(508) 683-7200

OFFICE AND COMPUTER SUPPLIES (cont.)

E D R, Inc.	Computers, Lt Electron Equip	Manchester, NH	(603) 647 - 0655
Encore Images	Laser Printer & Copier Cartridges	Marblehead	(800) 868 - 4568
Basic Waste Systems	Electron. Equip.	Medford	(617) 396 - 1177
Asian Export Material Co.	Electron Equip	Newton	(617) 332 - 7929
Shapiro & Sons, Inc.	Electron. Equip	North Adams	(413) 663 - 6525
Laser Perfect	Laser Printer Cartridges	Peabody	(508) 532 - 4600
Environmental Toner Cartridge Co.	Toner Cartridges, Electron Equip	Quincy	(617) 479 - 6249
Earthworm, Inc.	Laser Printer Cartridges	Somerville	(617) 628 - 1844
Recycling Technologies Int'l	Laser Printer Cartridges	Springfield	(413) 739 - 8889
Copy Inks	Laser Printer Cartridges	Stoughton	(617) 344 - 2679
Stratford Baling Co.	Electron Eqiup	Stratford, CT	(203) 377 - 7491
LaserTone	Laser Printer Cartridges	Sudbury	(508) 443 - 1455
Laser-Mate	Laser Cartridges, Fax Paper	Waltham	(800) 243 - 6283
Danka E B S	Toner Cartridges	Waltham	(617) 894 - 6283
Boston Computer Society	Outdated Computer Equip.	Waltham	(617) 290 - 5700
Print Recovery Concepts	Ink Ribbons, Printer Cartridges	Waterboro, ME	(800) 397 - 7269
Discas Recycled Products Corp.	Electron Equip, Toner Cartridges	Waterbury, CT	(203) 735 - 5147
Gianco Ltd.	Electron Equip, Toner Cartridges	West Babylon, NY	(516) 491 - 5800
E L Harvey & Sons	Electron Equip	Westborough	(800) 321 - 3002
LaserStar	Laser Printer Cartridges	Woburn	(617) 932 - 8667
Easter Seals Disabilities Comp Prog	Working Computers	Worcester	(800) 922 - 8290

● PAPER

(See also your yellow pages under: "Recycling", "Rubbish Haulers", or "Waste Paper")

Greylock Ice & Fuel	All Grades	Adams	(413) 743 - 1020
Yank Waste	White Office	Albany, NY	(518) 456 - 2345
Kruger Recycling Inc.	All Grades	Albany, NY	(518) 433 - 0020
Agresource, Inc.	High Grades, OCC	Amesbury	(508) 388 - 5110
Sonoco Products Co.	OCC, News	Amsterdam, NY	(518) 842 - 1010
B P Trucking Inc.	High Grades	Ashland	(508) 653 - 4891
National Recycling	High Grades	Attleboro	(508) 226 - 1700
Waste Management Inc.	OCC, News	Attleboro	(508) 823 - 5133
Browning-Ferris Industries	All Grades, Drums, Spec	Auburn	(508) 832 - 9001
Redemco Inc.	OCC	Avon	(508) 584 - 8200
S Spiegel Co.-Waste Management	All Grades, Phonebooks	Avon	(800) 696 - 9921
Eustic Recycling Corporation	Mixed Office	Avon	(508) 583 - 5700
American Tissue	All Grades	Baldwinville	(508) 939 - 5359
Seaman Paper Co.	High Grades	Baldwinville	(508) 939 - 5356
Universal Disposal & Recycling Co.	All Grades	Becket	(413) 623 - 6021
National Fiber Insulation	News	Belchertown	(413) 283 - 8747
Vel-A-Tran	High Grades	Billerica	(508) 663 - 7266
Plastics and Metals Industries	OCC	Blodgett Mills, NY	(607) 756 - 7732
White Paper Project	High Grades	Boston	(617) 727 - 6223
Boston Can	OCC	Boston	(617) 247 - 3120
Center House	High Grades	Boston	(617) 426 - 3535
Browning-Ferris Industries	All Grades, Spec	Boston	(617) 265 - 0500
Schirmer Paper Corp.	All Grades	Boston	(617) 723 - 5588
A A A Paper Recycling	High Grades	Boylston	(508) 987 - 0186

PAPER (Cont.)

Second Chance Recycling	High Grades	Brattleboro, VT	(802) 254 - 9456
Browning-Ferris Industries	All Grades, Drums, Spec	Brockton	(508) 580 - 1511
Waste Management	High Grades	Brockton	(508) 583 - 5700
Kansas Recycling & Trucking	Mixed Office	Brooklyn, NY	(718) 387 - 9701
Paper Recycling International	Mixed Office	Buffalo, NY	(716) 891 - 6300
Save That Stuff	All Grades	Cambridge	(617) 864 - 0640
Bawana Farm Compost	All Grades	Canaan, CT	(203) 824 - 1148
Fort Orange Paper Company	News, OCC	Castleton, NY	(518) 732 - 7722
League of Little Baseballers	Mixed Office	Centerville	(508) 790 - 4128
Prins Recycling Cente	All Grades	Charlestown	(617) 242 - 7746
Columbia Corp.	High Grades, News, OCC	Chatham, NY	(518) 392 - 4000
Advance	All Grades	Chelmsford	(508) 250 - 4800
Delmolino Trucking	Mixed Office, News	Cheshire	(413) 743 - 5397
Callahan Trucking	All Grades	Cheshire	(413) 442 - 8390
Browning-Ferris Industries	High Grades, OCC	Chicopee	(800) 224 - 6234
Partyka Resource Management	High Grades, OCC, News	Chicopee	(413) 785 - 1581
Recycling Services, Inc.	All Grades, Spec	Claremont, NH	(603) 542 - 8755
Advanced Recycling	All Grades	Concord, NH	(800) 227 - 3911
Waste Systems	High Grades	Cranston, RI	(800) 972 - 4545
Crane & Co., Inc.	High Grades	Dalton	(413) 684 - 2600
Berkshire Clean-Way	All Grades	Dalton	(413) 684 - 0165
Lenox Junk	High Grades	Dorchester	(617) 288 - 2841
Bay State Paper Recycling	High Grades, OCC	East Douglas	(508) 476 - 3212
N E Appliance Recovery Systems	All Grades	East Freetown	(508) 763 - 3900
Elm Fibers	All Grades	East Longmeadow	(413) 567 - 1759
Capital Paper Recycling Inc.	All Grades, Drums, Spec	East Weymouth	(617) 337 - 9807
Somers Sanitation	High Grades, OCC, News	East Windsor, CT	(203) 623 - 2070
Marcal Paper Mills, Inc.	All Grades	Elmwood Park, NJ	(201) 796 - 4000
Garden State Paper	News	Elmwood Park, NJ	(201) 796 - 0600
Erving Paper Mill	High Grades	Erving	(800) 252 - 9208
Conigliaro Industries	All Grades	Framingham	(508) 872 - 9668
Roger Trucking	OCC, Mixed Office	Great Barrington	(413) 528 - 3590
Martin's Farm	All Grades	Greenfield	(413) 774 - 5631
Day's Recycling	All Grades	Greenfield	(413) 772 - 0364
Hudson Trucking	All Grades	Greenfield	(413) 773 - 9677
Bonded Insulation Co., Inc	News, Mags	Hagaman, NY	(518) 842 - 1470
Datasafe Shredding	All Grade	Hanover	(617) 878 - 2799
Dave Wickles Trucking	All Grades	Hatfield	(413) 247 - 9231
P & T Recycling Services	All Grades	Haverhill	(800) 692 - 0009
Newark Paperboard / Haverhill	All Grades	Haverhill	(508) 373 - 4111
G E Robertson & Co.	All Grades	Hinsdale, NH	(603) 336 - 5981
Linweave Papers	High Grades	Holyoke	(413) 536 - 6410
Sonoco Products Co.	All Grades	Holyoke	(413) 563 - 4546
Browning-Ferris Industries	All Grades, Drums, Spec	Hooksett, NH	(603) 669 - 2282
Rising Paper Co.	High Grades	Housatonic	(413) 274 - 3345
M O S A	All Grades	Howes Cave, NY	(518) 296 - 8884
Bay State Paper Co.	Mixed Office, OCC	Hyde Park	(617) 361 - 3500
J Crocker Metals Co.	High Grades	Jaffrey, NH	(603) 532 - 8302
N E E D	OCC	Johnston, RI	(401) 943 - 1630

PAPER (Cont.)

Pinetree Waste Corp.	High Grades, OCC, News	Keene, NH	(603) 357 - 4586
Black Diamond Trucking	All Grades	Lanesboro	(413) 447 - 7741
Browning-Ferris Industries	All Grades	Latham, NY	(518) 785 - 703[illegible]
Essex Waste Paper Co. / P & T	All Grades	Lawrence	(508) 521 - 741[illegible]
Heritage Packaging	OCC	Lawrence	(508) 686 - 6127
Newark Paperboard / Lawrence	All Grades	Lawrence	(508) 687 - 7100
G & A Recycling	OCC, Drums	Leominster	(508) 534 - 5696
Leominster Recycling	High Grades	Leominster	(508) 534 - 3269
Sterling / C & J Trucking	All Grades	Londonderry, NH	(508) 663 - 7700
West Lynn Recycling Co. Inc.	OCC, News	Lynn	(617) 592 - 0378
Atlantic Waste Systems, Inc.	All grades	Lynn	(617) 581 - 2410
Turner Trucking	All Grades	Lynn	(617) 595 - 3741
Malden Waste Paper	High Grades	Malden	(617) 322 - 2337
Ostrinsky Inc.	All Grades	Manchester, CT	(203) 643 - 5879
J Schwartz Motor Transport	All Grades, Spec	Manchester, NH	(603) 627 - 4191
American Paper Recycling Corp.	All Grades	Mansfield	(508) 339 - 5551
Perkit Folding Box	All Grades	Mattapan	(617) 361 - 1057
Basic Waste Systems	All Grades	Medford	(617) 396 - 1177
Vining Co. / Environmental Ideas	All Grades	Medford	(617) 279 - 0006
M Wilder & Sons	High Grades	Meriden, CT	(203) 235 - 4225
Frank Rubbish Removal	All Grades	Millbury	(508) 865 - 5935
Newark Paperboard / Natick	All Grades	Natick	(508) 653 - 9100
A A A Recycling Sales & Services	All Grades	New Bedford	(508) 999 - 9331
A W Martin, Inc.	All Grades	New Bedford	(508) 933 - 4359
Samuel Mirsky Corp.	All Grades	New Bedford	(508) 993 - 9988
Master Garbologist	All Grades	New Marlboro	(413) 229 - 3442
Hudson Baylor Corp.	All Grades	Newburgh, NY	(914) 561 - 016[illegible]
Fromisano Recycling Center	All Grades	Newburgh, NY	(914) 562 - 17[illegible]
Shapiro & Sons, Inc.	All Grades	North Adams	(413) 663 - 6525
Environmental Action	OCC, News, High Grades	North Adams	(413) 664 - 4936
George Apkin & Sons, Inc.	OCC	North Adams	(413) 664 - 4936
Tatro & Sons Trucking	OCC, News	North Adams	(413) 664 - 9454
Miller Recycling Corporation	All Grades	North Attleboro	(800) 783 - 6766
Alternative Services Assocn.	High Grades, News	North Chelmsford	(800) 427 - 5522
P Allen & Sons Inc	All Grades	Northampton	(413) 584 - 3040
Duseau Waste Industries Inc	All Grades	Northampton	(413) 586 - 4100
United Paper Stock Co. Inc.	All Grades, Drums, Spec	Pawtucket, RI	(401) 724 - 5700
Allways Fibre Recycling Inc.	All Grades	Pittsfield	(413) 499 - 1522
Vicon Recovery Associates	OCC, News	Pittsfield	(413) 443 - 7373
South Shore Recycling	OCC, News	Plymouth	(508) 830 - 0030
Capital Paper Recycling Inc.	High Grades	Plympton	(617) 585 - 4901
J C Paper Company	All Grades	Poughkeepsie, NY	(914) 454 - 2170
Ashuelot Paper Company	High Grades, OCC	Putney, VT	(802) 387 - 4074
M Sugarman & Co., Inc.	High Grades, Mixed Office	Quincy	(617) 470 - 1637
McGinnis Paper Recycling, Inc.	High Grades, OCC, News	Quincy	(617) 773 - 9901
American Fuyang Economic & Trade	High Grades	Randolph	(508) 961 - 8890
Red Hook Paper Inc.	OCC, News	Red Hook, NY	(914) 758 - 9200
Laidlaw Waste Systems	All Grades	Revere	(617) 289 - 0500
F N C Company	All Grades, Drums, Spec	Revere	(617) 242 - 0809

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Jet-A-Way / Kemble Waste	All Grades	Roxbury	(617) 541 - 4000
North Shore Recycled Fibers	All Grades, Drums, Spec	Salem	(617) 289 - 9400
F M Fibers	High Grades	Salem	(617) 242 - 0809
T A Predel & Sons	White Office, OCC, News	Schencectady, NY	(518) 346 - 3445
Hanna Paper Recycling	High Grades	Sharon	(617) 784 - 5155
We Cycle Inc.	All Grades	Shrewsbury	(508) 842 - 0460
Innovative Waste Services Inc	All Grades, Spec	Somers, NY	(914) 232 - 2237
Earthworm, Inc.	High Grades, News, Mixed Office	Somerville	(617) 628 - 1644
Encore Paper Company	High Grades, News, OCC	South Glen Falls, NY	(518) 793 - 5684
Federal Paperboard	All Grades	Sprague, CT	(203) 823 - 3650
Resource Recovery Systems Inc.	News, OCC, Mixed Office	Springfield	(203) 767 - 7057
Acme Metals & Recycling, Inc.	High Grades	Springfield	(413) 737 - 3112
Harry Goodman & Sons	All Grades	Springfield	(413) 785 - 5331
Springfield Materials Recovery Facility	All Grades	Springfield	(413) 784 - 1100
Stratford Baling Co.	All Grades, Drums, Spec	Stratford, CT	(203) 377 - 7491
Cascade Diamond, Inc	Computer, News, Mixed, Spec	Thorndike	(413) 283 - 8301
Esleeck Manufacturing	High Grades	Turners Falls	(413) 863 - 4326
Waste Management Inc	All Grades, Spec	Wakefield	(617) 246 - 4210
All-Brands Container Recovery	Computer, OCC, News	Wakefield	(800) 439 - 2267
Container Services-Div. of Waste Mgm	High Grades	Walpole	(508) 660 - 1804
Third Century Recycling Inc.	Mixed Office	Waterberry, CT	(203) 574 - 3131
Wastepaper Corp. of Worcester	All Grades	Webster	(508) 943 - 0727
North Shore Recycled Fibers	All Grades	Webster	(508) 943 - 0853
Gianco Ltd.	All Grades	West Babylon, NY	(516) 491 - 5800
Waste Management of Central Mass	All Grades	West Boylston	(800) 698 - 8785
Hershman Recycling Inc.	Mixed Office	West Haven, CT	(203) 933 - 7878
Marcus Paper Co.	Mixed Office	West Haven, CT	(203) 934 - 6351
Commercial Disposal Inc	High Grades, OCC, Mixed Office	West Springfield	(413) 443 - 9474
S E M A S S Recycling	OCC, News	West Wareham	(508) 291 - 2122
E L Harvey & Sons	All Grades	Westborough	(800) 321 - 3002
Northeast Recycling Corp.	All Grades	Westfield	(413) 568 - 4500
North Shore Recycled Fibers	All Grades	Weymouth	(617) 337 - 9800
Corrugated Recycling Inc.	OCC	Weymouth	(800) 427 - 5765
Wood Enterprises	All Grades	Whately	(413) 665 - 7634
William Goodman & Sons	All Grades	Wilbraham	(413) 568 - 4500
Robert E. Smith Trucking	High Grades, OCC, News	Williamstown	(413) 458 - 4453
E C Whitney & Son.	Drums	Wilmington	(508) 658 - 8151
Office Paper Recovery Systems, Inc.	High Grades	Wilmington	(508) 694 - 1450
Data Destruction / O P R S	High Grades	Woburn	(800) 762 - 6765
Wood Recycling, Inc.	All Grades, Spec	Woburn	(800) 982 - 8732
I Zaitlin & Sons	All Grades	Woburn	(617) 938 - 0611

PLASTIC

(See also your yellow pages under: "Recycling", "Rubbish Haulers", or "Scrap Plastic".)

Greylock Ice & Fuel	PET, HDPE	Adams	(413) 743 - 1020
Harvest Cooperative Supermarket	PET, HDPE	Allston	(617) 556 - 1049
Boston Food Coop	HDPE	Allston	(617) 787 - 1417
Clearview Polymers	HDPE, PVC	Amsterdam, NY	(518) 842 - 7134

PLASTIC (Cont.)

A E P Industries	HDPE, LDPE	Ashburnham	(508) 827 - 3258
Free-Flow Packaging Corp.	PS	Auburn	(508) 832 - 5369
Enviroplastics Corp.	HDPE	Auburn	(508) 832 - 5095
Browning-Ferris Industries	PET, HDPE	Auburn	(508) 832 - 9001
Eustic Recycling Corporation	All Plastics	Avon	(508) 583 - 5700
P R G	PETE, HDPE, PVC, PP	Baltimore, MD	(410) 686 - 9232
Ingenuity Corp.	All Plastics	Barnard, VT	(802) 243 - 5198
w T e Corporation	HDPE, PET, PS, Eng.	Bedford	(617) 275 - 6400
P T I America Co.	HDPE, PET, PVC	Berlin	(508) 838 - 0223
Plastics and Metals Industries	PP, PS, Pails, Eng.	Blodgett Mills, NY	(607) 756 - 7732
A Wilson Inc.	PVC	Boston	(508) 871 - 5151
Browning-Ferris Industries	PET, HDPE	Boston	(617) 265 - 0500
A Hamburger & Sons Co.	PVC	Boston	(617) 268 - 5580
Boston Can	PET	Boston	(617) 247 - 3120
National Polystyrene Recycling	All PS, Food Service Pkg & Regrind	Bridgeport, NJ	(609) 467 - 9377
Browning-Ferris Industries	PET, HDPE	Brockton	(508) 580 - 1511
R 2 B 2 (Resource Recovery)	PET, HDPE, PVC, PP, PS	Bronx, NY	(212) 731 - 3931
Thermal Foam Inc	PS	Buffalo, NY	(800) 333 - 6267
Save That Stuff	HDPE	Cambridge	(617) 864 - 0640
Brave New Garden	HDPE	Cambridge	(800) 853 - 2525
Prins Recycling Center	HDPE, PET	Charlestown	(617) 242 - 7746
Advance	PET, HDPE, PVS, PS	Chelmsford	(508) 250 - 4800
Callahan Trucking	HDPE	Cheshire	(413) 442 - 8390
Clean Environment Co.	HDPE, PET, PS	Chicopee	(413) 593 - 1306
Plastic Granulating Co.	PET, PVC, LDPE, PP, PS, Eng.	Chicopee	(413) 733 - 0998
Browning-Ferris Industries	PET, HDPE, PVC	Chicopee	(800) 224 - 6234
Partyka Resource Management	HDPE, PET, PVC	Chicopee	(413) 785 - 1581
Recycling Services, Inc.	PETE, HDPE, PVC, LDPE, Eng.	Claremont, NH	(603) 542 - 8755
Tuscarora Incorporated	PS	Colorado Springs, CO	(412) 847 - 2271
Tri-State Recycling Company	PS	Copiague, NY	(516) 884 - 7610
Plastics Services Inc.	PET, HDPE, LDPE, PS	Cos Cob, CT	(203) 869 - 5423
Berkshire Clean-Way	PET, HDPE, PVC	Dalton	(413) 684 - 0165
Multi-Products Recycling Facility	Engineered	Dorchester	(617) 825 - 7615
Pure Tech Plastics, Inc.	PET, HDPE	East Farmingdale, NY	(516) 755 - 1124
N E Appliance Recovery Systems	PET, HDPE	East Freetown	(508) 763 - 3900
Connecticut Container Recovery	PET, HDPE	East Hartford, CT	(203) 646 - 7573
Capital Paper Recycling Inc.	PET, HDPE, PVC, LDPE, PP, PS, Eng.	East Weymouth	(617) 337 - 9807
Somers Sanitation	PET, HDPE, PS	East Windsor, CT	(203) 623 - 2070
Frankel Industries, Inc.	All Plastics	Edison, NJ	(908) 572 - 0036
Browning-Ferris Industries	PET, HDPE	Fall River	(508) 678 - 8860
Polychem Products Ltd.	All Plastics, Eng.	Foxboro	(508) 543 - 2490
St Jude Polymer	PET	Frackville, PA	(717) 874 - 1220
Conigliaro Industries	All Plastics	Framingham	(508) 872 - 9668
Roger Trucking	PET, HDPE, PP, PS	Great Barrington	(413) 528 - 3590
Good Works Plastic Recycling	All Plastics, Eng.	Greenfield	(413) 774 - 3040
P & T Recycling Services	PET, HDPE, LDPE, PP, PS, Drums	Haverhill	(800) 692 - 0009
Civiera & Silver Intl., Inc.	PETE, PVC, LDPE, PP, PS, Eng.	Holden	(508) 829 - 7353
Paper City Plastics Waste Co.	All Plastics, Eng.	Holyoke	(413) 534 - 7900
Browning-Ferris Industries	PET, HDPE	Hooksett, NH	(603) 669 - 2282

PLASTIC (Cont.)

M O S A	PET, HDPE, PVC	Howes Cave, NY	(518) 296 - 8884
Energy Development Assoc., Inc	HDPE	Keene, NH	(603) 357 - 9475
Black Diamond Trucking	PET, HDPE, PVC	Lanesboro	(413) 447 - 7741
Browning-Ferris Industries	PET, HDPE, PVC, LDPE, PP, PS	Latham, NY	(518) 785 - 7030
Heritage Packaging	PET, EPS, Eng	Lawrence	(508) 686 - 6127
Aaron Industnes Corp.	PET, HDPE, PVC, LDPE, PP, PS	Leominister	(508) 534 - 6135
Wiltec, Inc.	HDPE, PS	Leominster	(508) 537 - 1497
G & A Recycling	EPS, Drums, Pails	Leominster	(508) 534 - 5696
Diversified Services in Plastics	HDPE, LDPE, PET, PP, PS	Leominster	(508) 537 - 4380
Plastican	HDPE	Leominster	(508) 537 - 4911
Electronics Processing Assocs.	PS, Eng	Lowell	(508) 970 - 2700
R S T Reclaiming, Inc.	Computer Plastic	Lowell	(508) 453 - 3425
Mobil Chemical Co.	LDPE	Macedon, NY	(315) 986 - 6630
Vining Co. / Environmental Ideas	All Plastics	Medford	(617) 279 - 0006
Atlon Corp.	HDPE	Natick	(508) 647 - 0077
Plastic Recyclers Inc.	HDPE	New Bedford	(508) 991 - 8880
A W Martin, Inc	HDPE, PET, PS	New Bedford	(508) 933 - 4359
A A A Recycling Sales & Services	HDPE, PET	New Bedford	(508) 999 - 9331
A & A Redemption Inc	PET, HDPE	New Bedford	(508) 995 - 3361
A B C Disposal	PS	New Bedford	(508) 995 - 0544
Samuel Mirsky Corp	HDPE	New Bedford	(508) 993 - 9988
Hafner Industries , Inc	HDPE, LDPE, PP PS	New Haven, CT	(203) 397 - 1562
Ingenuity Corp	PET, HDPE, LDPE, PP, PS	New Haven, CT	(203) 776 - 4444
Plastics Recovery Corp	All Plastic	New Haven, CT	(203) 785 - 0458
Master Garbologist	HDPE, PET, PP, PVC, PS, Eng.	New Marlboro	(413) 229 - 3442
Nyconn	PET	New York, NY	(718) 392 - 1177
Hudson Baylor Corp.	PET, HDPE	Newburgh, NY	(914) 561 - 0167
Asian Export Material Co.	All Plastic	Newton	(617) 332 - 7929
George Apkin & Sons, Inc.	HDPE, PET, PVC	North Adams	(413) 664 - 4936
North Atlantic Recycling Svcs	HDPE, PET	North Andover	(508) 682 - 5442
Miller Recycling Corporation	PET, Eng.	North Attleboro	(800) 783 - 6766
Clean Environment Co.	HDPE, PET, PS	North Billerica	(508) 250 - 4800
P Allen & Sons Inc.	HDPE, PET	Northampton	(413) 584 - 3040
Duseau Waste Industries Inc	HDPE, PET, PVC	Northampton	(413) 586 - 4100
Polyfoam Corp	EPS	Northbridge	(508) 234 - 6323
H Muehlstien & Co.,	HDPE, LDPE, PP, Eng	Norwalk, CT	(203) 855 - 6000
B A R Company	PET, HDPE, LDPE, PP	Oxford, ME	(207) 539 - 4128
United Paper Stock Co. Inc.	All Plastics, Eng	Pawtucket, RI	(401) 724 - 5700
Berger & Company	HDPE, LDPE, PP, PS	Pawtucket, RI	(401) 723 - 7240
Webster Industries	LDPE	Peabody	(508) 532 - 2000
Tech Pak Inc.	PS	Peabody	(508) 532 - 3500
L Fine & Company	All Plastics	Peabody	(508) 532 - 2112
K C Recycling	Polyurethane	Pembroke	(617) 294 - 7032
Allways Fibre Recycling Inc.	PET, HDPE, PVS, PP, PS	Pittsfield	(413) 499 - 1522
P M Services Inc,.	PP	Plainville, CT	(203) 747 - 1335
South Shore Recycling	HDPE, PET	Plymouth	(508) 830 - 0030
Denton Plastics, Inc.	HDPE, LDPE, PET, PP, PS, PVC	Portland, OR	(503) 257 - 9945
Northeast Plastics	PETE, HDPE, PVC, LDPE, PP	Portsmouth, NH	(603) 433 - 6411
Oriental Export, Inc.	All Plastics, Eng.	Quincy	(617) 733 - 8662

PLASTIC (Cont.)

American Fuyang Economic & Trade	PET	Randolph	(508) 961 - 8890
Laidlaw Waste Systems	HDPE, PS	Revere	(617) 289 - 0500
Turn-Key Plastics Corporation	HDPE, LDPE, PP, PS	Rochdale	(508) 892 - 1777
Ontario Recycling Corp.	PS	Rochester, NY	(716) 328 - 4253
Jet-A-Way / Kemble Waste	All Plastics, Drums, Pails	Roxbury	(617) 541 - 4000
Casella Waste Management	HDPE, PET	Rutland, VT	(802) 775 - 9908
North Shore Recycled Fibers	PETE, HDPE	Salem	(617) 289 - 9400
Universal Steel & Trading Corp.	HDPE, LDPE	Salem	(508) 744 - 0124
We Cycle Inc.	All Plastics, Eng.	Shrewsbury	(508) 842 - 0460
Innovative Waste Services Inc.	PET, HDPE, EPS, Drums, Pails	Somers, NY	(914) 232 - 2237
Metropolitan Processed Mat'ls	HDPE, PET, PP, PS, PVC	Somerville	(617) 623 - 3917
Resource Recovery Systems Inc	PET, HDPE	Springfield	(203) 767 - 7057
Harry Goodman & Sons	PET, HDPE	Springfield	(413) 785 - 5331
PureTech	PET	Springfield	(413) 736 - 0830
Springfield Materials Recovery Facility	HDPE, PET, PVC	Springfield	(413) 784 - 1100
Stratford Baling Co.	PET, HDPE, Pails	Stratford, CT	(203) 377 - 7491
Vermont Republic Industries	HDPE, PVC, Pails	St. Albans, VT	(802) 524 - 6055
Foam Concepts Inc.	EPS	Uxbridge	(508) 278 - 7255
All-Brands Container Recovery	All Plastic	Wakefield	(800) 439 - 2267
Waste Management Inc.	PET, HDPE	Wakefield	(617) 246 - 4210
Discas Recycled Products Corp.	PET, HDPE, LDPE, PP, PS, Eng.	Waterbury, CT	(203) 735 - 5147
Recycling Enterprises	PET	Webster	(508) 949 - 2797
Gianco Ltd.	All Plastics	West Babylon, NY	(516) 491 - 5800
Waste Management of Central Mass	PET	West Boylston	(800) 698 - 8785
Plastic Resale Corp.	All Plastic, Eng.	West Springfield	(413) 739 - 1508
Commercial Disposal Inc.	PET, HDPE, PVC, PP, PS	West Springfield	(413) 443 - 9474
E L Harvey & Sons	HDPE, PET, LDPE	Westborough	(800) 321 - 3002
Storopack Inc.	PS	Westborough	(508) 366 - 1249
North Shore Recycled Fibers	HDPE	Weymouth	(617) 337 - 9800
Pro Pel Plastics	HDPE, LDPE, PET	Whately	(413) 665 - 3379
Wood Enterprises	HDPE	Whately	(413) 665 - 7634
Robert E. Smith Trucking	HDPE, PVC	Williamstown	(413) 458 - 4453
E C Whitney & Son.	HDPE, LDPE, Drums, Eng.	Wilmington	(508) 658 - 8151
Plastics Group of America	HDPE, LDPE, PP, PS, Eng.	Woonsocket, RI	(401) 767 - 2700

● SCRAP METAL AND WHITE GOODS

(See also your yellow pages under: "Junk", "Recycling", "Rubbish Haulers", or "Scrap Metal")

Greylock Ice & Fuel	Non-Ferrous	Adams	(413) 743 - 1020
Capital Scrap Metal	Ferrous, Non-Ferrous	Albany, NY	(518) 465 - 4914
N A Nichols Co., Inc.	Ferrous, Non-Ferrous	Amesbury	(508) 388 - 9639
Hodgdon Brothers	Ferrous, Non-Ferrous	Ascutney, NY	(802) 674 - 6202
Waste Management Inc.	Ferrous, Non-Ferrous	Attleboro	(508) 823 - 5133
Champagne Auto Exchange	Auto Parts	Auburn	(508) 832 - 6669
S Spiegel Co.- Waste Management	Autos, Ferrous, Non-Ferrous	Avon	(800) 696 - 9921
Eustic Recycling Corporation	Non-Ferrous	Avon	(508) 583 - 5700
Universal Disposal & Recycling Co.	Ferrous, Non-Ferrous	Becket	(413) 623 - 6021
Belchertown Metal Recycling Co.	Ferrous, Non-Ferrous	Belchertown	(413) 323 - 6639
Used Auto Parts Inc.	Autos	Berkley	(508) 823 - 8136

SCRAP METAL AND WHITE GOODS (Cont.)

P T I America Co.	Non-Ferrous, Precious	Berlin	(508) 838 - 0223
Berlin Auto Parts	Auto Parts	Berlin	(508) 838 - 2991
Henry's Auto Parts Inc.	Autos	Blackstone	(508) 883 - 7300
Plastics and Metals Industries	Non-Ferrous	Blodgett Mills, NY	(607) 756 - 7732
Stanley Sack Company	Ferrous, Non-Ferrous	Bloomfield, CT	(203) 242 - 6228
Browning-Ferris Industries	Ferrous, Non-Ferrous	Boston	(617) 265 - 0500
A Wilson Inc.	Ferrous, Non-Ferrous	Boston	(508) 871 - 5151
Castle Metal Co.	Non-Ferrous	Boston	(617) 482 - 7332
Mass Adoption Resource Exchg.	Autos	Boston	(617) 536 - 0362
Harcon Corporation	Autos, Ferrous, Non-Ferrous	Boston	(617) 542 - 3300
P K Contracting, Inc.	Ferrous	Braintree	(617) 843 - 0225
Recycled Auto Parts of Brattleboro	Ferrous, Non-Ferrous	Brattleboro	(802) 254 - 9034
C R T	Non-Ferrous	Bridgewater	(800) 833 - 8278
Bridgewater Recycling	Ferrous, Non-Ferrous	Bridgewater	(508) 697 - 3161
M K Industries	Autos, Precious	Bridgewater	(508) 279 - 1129
Browning-Ferris Industries	Ferrous, Non-Ferrous	Brockton	(508) 580 - 1511
Brockton Auto Parts	Autos	Brockton	(508) 584 - 4000
Metals Recovery Co	Non-Ferrous	Brockton	(508) 587 - 3010
Brockton Iron & Steel	Autos, Ferrous, Non-Ferrous	Brockton	(508) 586 - 4640
Glantz Iron and Metals, Inc.	Non-Ferrous	Brooklyn, NY	(718) 782 - 3358
Burlington Recyclers	Ferrous, Non-Ferrous	Burlington	(617) 229 - 5790
S Strogroff & Co., Inc	Ferrous, Non-Ferrous	Chelsea	(617) 884 - 3909
M Burnstein & Co., Inc.	Ferrous, Non-Ferrous	Chelsea	(617) 884 - 7700
Kane Scrap Iron & Metal Co.	Non-Ferrous	Chicopee	(413) 593 - 1306
Clean Environment Co.	Ferrous, Non-Ferrous	Chicopee	(413) 593 - 1306
Browning-Ferris Industries	Ferrous, Non-Ferrous	Chicopee	(800) 224 - 6234
Partyka Resource Management	Ferrous, Non-Ferrous	Chicopee	(413) 785 - 1581
Recycling Services, Inc.	Drums, Ferrous, Non-Ferrous	Claremont, NH	(603) 542 - 8755
W M Reisner Corp	Ferrous, Non-Ferrous	Clinton	(508) 365 - 4585
Advanced Recycling	Autos, Ferrous, Non-Ferrous	Concord, NH	(800) 227 - 3911
Berkshire Clean-Way	Ferrous, Non-Ferrous	Dalton	(413) 684 - 0165
Kidney Foundation Car Campaign	Autos	Dedham	(800) 542 - 4001
Lenox Junk	Non-Ferrous	Dorchester	(617) 288 - 2841
Lewis Philip & Sons	Non-Ferrous	Dorchester	(617) 442 - 1250
Joseph Kradin & Sons Co.	Ferrous, Non-Ferrous	Dorchester	(617) 288 - 0044
N E Appliance Recovery Systems	Autos, Drums, Ferrous, Non-Ferrous	East Freetown	(508) 763 - 3900
Powers Rubbish Removal & Recyclin	Ferrous, Non-Ferrous	East Montpelier, VT	(802) 476 - 6035
Capital Paper Recycling Inc.	Ferrous, Non-Ferrous	East Weymouth	(617) 337 - 9807
Somers Sanitation	Ferrous, Non-Ferrous	East Windsor, CT	(203) 623 - 2070
Alco Recycling Co.	Non-Ferrous	Edison, NJ	(908) 225 - 9550
Mattuchio Brothers Inc.	Ferrous	Everett	(617) 387 - 1919
H H & M Metals Inc.	Ferrous, Non-Ferrous	Everett	(617) 387 - 4685
Prolerized New England Co.	Autos, Ferrous	Everett	(617) 389 - 8300
M Kaplan & Co.	Non-Ferrous	Everett	(617) 389 - 4775
M & S Metals Co., Inc.	Non-Ferrous	Everett	(617) 884 - 6735
Mike's Junk Co.	Non-Ferrous	Everett	(617) 884 - 6569
Browning-Ferris Industries	Ferrous, Non-Ferrous	Fall River	(508) 678 - 8860
Gitlin Brothers	Ferrous, Non-Ferrous	Fall River	(508) 673 - 5884
Olde English Metal Ltd.	Ferrous, Non-Ferrous	Falmouth	(508) 540 - 7873

SCRAP METAL AND WHITE GOODS (Cont.)

Winthrop Steel	Non-Ferrous, Autos	Fitchburg	(508) 343 - 3627
Conigliaro Industries	Drums	Framingham	(508) 872 - 9668
Framingham Salvage	Autos, Ferrous, Non-Ferrous	Framingham	(508) 872 - 4393
Freetown Auto	Autos	Freetown	(508) 763 - 2728
Garbose Metal Co.	Ferrous, Non-Ferrous	Gardner	(508) 632 - 0446
Roger Trucking	Ferrous, Non-Ferrous	Great Barrington	(413) 528 - 3590
R Kelly Freedman & Sons, Inc.	Autos, Ferrous, Non-Ferrous	Green Island, NY	(518) 273 - 1141
Speedway Metals	Ferrous, Non-Ferrous	Greenfield	(413) 774 - 3664
Kramer Scrap Division	Ferrous, Non-Ferrous, Auto	Greenfield	(413) 774 - 3103
Hudson Trucking	Ferrous, Non-Ferrous	Greenfield	(413) 773 - 9677
Raynham Tire Recycling Inc.	Ferrous, Non-Ferrous	Hanover	(617) 829 - 8840
Rome Recycling Corp.	Ferrous, Non-Ferrous	Hartford, CT	(203) 951 - 3186
Suisman & Blumenthal	Ferrous, Non-Ferrous	Hartford, CT	(203) 522 - 3123
Dave Wickles Trucking	Drums, Ferrous, Non-Ferrous	Hatfield	(413) 247 - 9231
Recycling for Gold - Special Olympics	Autos	Hathorne	(508) 774 - 1501
P & T Recycling Services	Ferrous, Non-Ferrous	Haverhill	(800) 692 - 0009
W F Sullivan Company Inc.	Ferrous, Non-Ferrous	Holyoke	(413) 539 - 9664
Browning-Ferris Industries	Ferrous, Non-Ferrous	Hooksett, NH	(603) 669 - 2282
M O S A	Ferrous	Howes Cave, NY	(518) 296 - 8884
J Crocker Metals Co.	Ferrous, Non-Ferrous	Jaffrey, NH	(603) 532 - 8302
National Waste Co	Ferrous, Non-Ferrous	Johnston, RI	(401) 751 - 3897
Pinetree Waste Corp.	Ferrous, Non-Ferrous	Keene, NH	(603) 357 - 4586
B Millen & Sons	Ferrous, Non-Ferrous	Kingston, NY	(914) 331 - 7600
Black Diamond Trucking	Non-Ferrous	Lanesboro	(413) 447 - 7741
Browning-Ferris Industries	Ferrous, Non-Ferrous	Latham, NY	(518) 785 - 7030
Leo J Couture & Sons Inc.	Autos	Lawrence	(508) 687 - 9527
John C Tombarello & Sons	Ferrous, Non-Ferrous, Auto	Lawrence	(508) 682 - 5226
G & A Recycling	Drums	Leominster	(508) 534 - 5696
Leominster Recycling	Non-Ferrous	Leominster	(508) 534 - 3269
J P Carroll Co., Inc.	Auto Parts	Lexington	(617) 861 - 6060
Electronics Processing Assocs	Ferrous, Non-Ferrous	Lowell	(508) 970 - 2700
Jewell Resources	Ferrous, Non-Ferrous	Lyndonville, VT	(800) 458 - 4525
West Lynn Recycling Co. Inc.	Ferrous	Lynn	(617) 592 - 0378
Turner Trucking	Ferrous	Lynn	(617) 595 - 3741
Madbury Metals	Ferrous, Non-Ferrous	Madbury, NH	(603) 749 - 3314
Ostrinsky Inc.	Ferrous, Non-Ferrous	Manchester, CT	(203) 643 - 5879
E D R, Inc.	Ferrous, Non-Ferrous	Manchester, NH	(603) 647 - 0655
East Mountain Transport	Ferrous, Non-Ferrous	Manchester, VT	(802) 362 - 4082
Vining Co. / Environmental Ideas	Ferrous, Non-Ferrous	Medford	(617) 279 - 0006
Bokser's Junk Shop	Non-Ferrous	Medford	(617) 395 - 8810
M Wilder & Sons	Ferrous, Non-Ferrous	Meriden, CT	(203) 235 - 4225
Costello Dismantling Co. Inc.	Ferrous, Non-Ferrous	Middleboro	(508) 946 - 0880
Day's Used Auto Parts	Auto Parts	Millbury	(508) 756 - 2850
C T Metal Industries	Non-Ferrous	Monroe, CT	(203) 268 - 5909
Bolduc Auto Salvage	Autos, Ferrous, Non-Ferrous	Montpeleir, VT	(802) 223 - 7917
Hardwick Recycling & Salvage	Ferrous, Non-Ferrous	Morrisville, VT	(802) 888 - 3627
Samuel Mirsky Corp.	Non-Ferrous	New Bedford	(508) 993 - 9988
A W Martin, Inc.	Non-Ferrous	New Bedford	(508) 933 - 4359
Cody & Tobin Inc.	Drums, Non-Ferrous	New Bedford	(508) 999 - 6711

SCRAP METAL AND WHITE GOODS (Cont.)

H Bixon & Sons	Ferrous, Non-Ferrous	New Haven, CT	(203) 777 - 7445
Master Garbologist	Ferrous, Non-Ferrous	New Marlboro	(413) 229 - 3442
Asian Export Material Co.	Non-Ferrous	Newton	(617) 332 - 7929
Shapiro & Sons, Inc.	Autos, Ferrous, Non-Ferrous	North Adams	(413) 663 - 6525
George Apkin & Sons, Inc.	Ferrous, Non-Ferrous	North Adams	(413) 664 - 4936
Environmental Action	Ferrous, Non-Ferrous	North Adams	(413) 664 - 4936
Tatro & Sons Trucking	Ferrous, Non-Ferrous	North Adams	(413) 664 - 9454
North Atlantic Recycling Svcs.	Non-Ferrous	North Andover	(508) 682 - 5442
Frank Miller & Son	Non-Ferrous	North Attleboro	(508) 695 - 0211
Atlantic Stainless Co., Inc.	Non-Ferrous	North Attleboro	(508) 695 - 6262
Miller Recycling Corporation	Non-Ferrous	North Attleboro	(800) 783 - 6766
Metalor USA Refining Corp.	Ferrous, Non-Ferrous	North Attleboro	(508) 699 - 8800
Dupre's Salvage / Recycle	Auto Parts	North Brookfield	(508) 867 - 9898
Acme Auto Salvage	Auto Parts	North Dartmouth	(508) 993 - 7362
M L Norwood Auto Recycling	Autos	North Grafton	(508) 839 - 5934
Schiavone & Sons	Ferrous, Non-Ferrous	North Haven, CT	(203) 777 - 2591
Highway Auto Salvage Inc.	Non-Ferrous	Northampton	(413) 586 - 0690
P Allen & Sons Inc.	Non-Ferrous	Northampton	(413) 584 - 3040
Duseau Waste Industries Inc	Ferrous, Non-Ferrous	Northampton	(413) 586 - 4100
Whitcomb Recycling	Ferrous, Non-Ferrous	Northfield	(413) 486 - 5052
Palmer Waste & Metal Inc	Non-Ferrous	Palmer	(413) 283 - 6371
Making Waste Obsolete	Ferrous, Non-Ferrous	Peterborough, NH	(603) 924 - 7034
Vicon Recovery Associates	Ferrous, Non-Ferrous	Pittsfield	(413) 443 - 7373
Allways Fibre Recycling Inc.	Ferrous, Non-Ferrous	Pittsfield	(413) 499 - 1522
Louis Perlman & Sons Inc.	Ferrous, Non-Ferrous	Pittsfield	(413) 442 - 7127
J W Green Co.	Ferrous, Non-Ferrous	Plainville, CT	(203) 747 - 5514
J Broomfield & Sons	Ferrous, Non-Ferrous	Providence, RI	(401) 785 - 2040
P D M Salvage Corp.	Ferrous, Non-Ferrous	Qincy	(617) 472 - 9251
M Sugarman & Co., Inc.	Ferrous, Non-Ferrous	Quincy	(617) 470 - 1637
American Fuyang Economic & Trade	Non-Ferrous	Randolph	(508) 961 - 8890
James Grant Co.	Ferrous, Non-Ferrous	Readville	(617) 361 - 2716
Jet-A-Way / Kemble Waste	Drums, Ferrous, Non-Ferrous	Roxbury	(617) 541 - 4000
General Metals and Smelting	Non-Ferrous	Roxbury	(617) 442 - 2050
Universal Steel & Trading Corp.	Ferrous, Non-Ferrous	Salem	(508) 744 - 0124
T A Predel & Sons	Ferrous, Non-Ferrous	Schencectady, NY	(518) 346 - 3445
We Cycle Inc.	Autos, Ferrous, Non-Ferrous	Shrewsbury	(508) 842 - 0460
Innovative Waste Services Inc.	Ferrous, Non-Ferrous	Somers, NY	(914) 232 - 2237
Prospect Iron & Steel Corp.	Autos, Drums, Ferrous, Non-Ferrous	Somerville	(617) 666 - 3405
Somerset Junk	Non-Ferrous	Somerville	(617) 623 - 9579
Nissenbaum Auto	Auto Parts	Somerville	(617) 776 - 0194
Atlas Metals, Inc.	Autos, Non-Ferrous	Somerville	(617) 666 - 8440
State Line Scrap Co.	Ferrous, Non-Ferrous	South Attleboro	(508) 399 - 8300
H Cohen & Sons	Ferrous, Non-Ferrous	South Boston	(617) 542 - 3300
D & D Welding & Salvage	Non-Ferrous	Southbridge	(508) 765 - 5119
R E Humason Inc.	Autos, Non-Ferrous	Southwick	(413) 569 - 6330
R & R Industries	Ferrous, Non-Ferrous	Springfield	(413) 733 - 2118
Harry Goodman & Sons	Non-Ferrous	Springfield	(413) 785 - 5331
Joseph Freedman Co., Inc.	Ferrous, Non-Ferrous	Springfield	(413) 781 - 4444
Stratford Baling Co.	Drums, Ferrous, Non-Ferrous	Stratford, CT	(203) 377 - 7491

SCRAP METAL AND WHITE GOODS (Cont.)

Hodgdon Brothers Recycling	Ferrous	Swanton, VT	(802) 868 - 7280
Enos Metals	Ferrous, Non-Ferrous	Taunton	(508) 824 - 5425
Cosentino Salvage & Recycling	Ferrous, Non-Ferrous	Templeton	(508) 939 - 2559
Tewksbury Industries	Ferrous, Non-Ferrous, Auto	Tewksbury	(508) 851 - 5946
Vermont Waste & Recycling Mgmt, Inc	Ferrous, Non-Ferrous	Vergennes, VT	(802) 453 - 3131
Valley Disposal, Inc.	Ferrous, Non-Ferrous	Waitsfield, VT	(802) 496 - 2588
Waste Management Inc	Drums, Ferrous, Non-Ferrous	Wakefield	(617) 246 - 4210
Robertson's Auto Salvage	Ferrous	Wareham	(508) 295 - 9444
Albert Brothers	Ferrous, Non-Ferrous	Waterbury, CT	(203) 753 - 4146
Palisades Recycling Corporation	Ferrous, Non-Ferrous	Waterbury, VT	(802) 244 - 5080
Arthur Schofield, Inc.	Ferrous	Wayland	(508) 358 - 2503
Janci Metals Recycling	Ferrous, Non-Ferrous	West Lebanon, NH	(603) 298 - 5953
Rutland Storage Trailers Inc.	Ferrous, Non-Ferrous	West Rutland, VT	(802) 775 - 5568
Commercial Disposal Inc.	Ferrous, Non-Ferrous	West Springfield	(413) 443 - 9474
E L Harvey & Sons	Ferrous, Non-Ferrous	Westborough	(800) 321 - 3002
Mid City Scrap & Salvage	Autos, Ferrous, Non-Ferrous	Westport	(508) 675 - 7831
Jas M Conway Scrap Metal	Ferrous, Non-Ferrous	Whitman	(617) 447 - 2534
Willimansett Waste Co.	Non-Ferrous	Willimansett	(413) 532 - 5315
E C Whitney & Son.	Drums, Ferrous	Wilmington	(508) 658 - 8151
Wood Recycling, Inc.	Ferrous, Non-Ferrous	Woburn	(800) 982 - 8732
Patriot Metals	Autos, Ferriys, Non-Ferrous	Worcester	(508) 798 - 3333
Salitsky Alloys, Inc.	Non-ferrous	Worcester	(508) 791 - 2444
Leroy & Co., Inc.	Non-Ferrous	Worcester	(508) 752 - 1790
Starr Scrap Metal, Inc.	Non-Ferrous	Worcester	(508) 791 - 0086
Empire Scrap Metals, Inc.	Non-Ferrous	Worcester	(508) 752 - 7750
Steel Searing & Baling Corp.	Ferrous, Non-Ferrous	Worcester	(508) 799 - 2133
Faulkner Scrap Metal	Ferrous, Non-Ferrous	Worcester	(508) 791 - 4802
Bay State Scrap	Ferrous, Non-Ferrous	Worcester	(508) 753 - 3926
National Auto Clearing House	Autos	Worcester	(508) 755 - 6978
Goldstein Scrap Metal	Non-Ferrous	Worcester	(508) 754 - 5711

WHITE GOODS:

Greylock Ice & Fuel	White Goods	Adams	(413) 743 - 1020
Browning-Ferris Industries	White Goods	Auburn	(508) 832 - 9001
Universal Disposal & Recycling Co	White Goods	Becket	(413) 623 - 6021
Browning-Ferris Industries	White Goods	Boston	(617) 265 - 0500
P K Contracting, Inc	White Goods, Freon Service	Braintree	(617) 843 - 0225
Brockton Iron & Steel	White Goods	Brockton	(508) 586 - 4640
Advance	White Goods	Chelmsford	(508) 250 - 4800
Partyka Resource Management	White Goods	Chicopee	(413) 785 - 1581
Recycling Services, Inc	White Goods	Claremont, NH	(603) 542 - 8755
Advanced Recycling	White Goods	Concord, NH	(800) 227 - 3911
N E Appliance Recovery Systems	White Goods	East Freetown	(508) 763 - 3900
American Metals Reclamation	White Goods	East Freetown	(508) 763 - 9325
Somers Sanitation	White Goods	East Windsor, CT	(203) 623 - 2070
Framingham Salvage	White Goods	Framingham	(508) 872 - 4393
Linsky Recycling, Inc	White Goods	Gloucester	(508) 283 - 1893
Roger Trucking	White Goods	Great Barrington	(413) 528 - 3590
R Kelly Freedman & Sons, Inc.	White Goods	Green Island, NY	(518) 273 - 1141

WHITE GOODS (Cont.):

Kramer Scrap Division	White Goods	Greenfield	(413) 774 - 3103
Speedway Metals	White Goods	Greenfield	(413) 774 - 3664
Dave Wickles Trucking	White Goods	Hatfield	(413) 247 - 9231
P & T Recycling Services	White Goods	Haverhill	(800) 692 - 0009
W F Sullivan Company Inc.	White Goods	Holyoke	(413) 539 - 9664
Browning-Ferris Industries	White Goods	Hooksett, NH	(603) 669 - 2282
M O S A	White Goods	Howes Cave, NY	(518) 296 - 8884
John C Tombarello & Sons	White Goods	Lawrence	(508) 682 - 5226
G & A Recycling	White Goods	Leominster	(508) 534 - 5696
Appliance Disposal Recyc Industs	White Goods, Freon Service	Lowell	(508) 459 - 4447
Turner Trucking	White Goods	Lynn	(617) 595 - 3741
West Lynn Recycling Co. Inc.	White Goods	Lynn	(617) 592 - 0378
Planergy Inc.	White Goods, Appliances	Marlboro	(800) 527 - 9709
Vining Co. / Environmental Ideas	White Goods	Medford	(617) 279 - 0006
Millis Used Auto Parts	White Goods	Millis	(508) 376 - 8700
A W Martin, Inc.	White Goods	New Bedford	(508) 933 - 4359
Master Garbologist	White Goods	New Marlboro	(413) 229 - 3442
George Apkin & Sons, Inc.	White Goods	North Adams	(413) 664 - 4936
Shapiro & Sons, Inc.	White Goods	North Adams	(413) 663 - 6525
Vicon Recovery Associates	White Goods	Pittsfield	(413) 443 - 7373
We Cycle Inc	White Goods	Shrewsbury	(508) 842 - 0460
Innovative Waste Services Inc.	White Goods	Somers, NY	(914) 232 - 2237
State Line Scrap Co	White Goods	South Attleboro	(508) 399 - 8300
R & R Industries	White Goods	Springfield	(413) 733 - 2118
Stratford Baling Co.	White Goods	Stratford, CT	(203) 377 - 7491
Curboy Salvage	White Goods	Sturbridge	(508) 347 - 9650
Tewksbury Industries	White Goods	Tewksbury	(508) 851 - 5946
Waste Management Inc	White Goods	Wakefield	(617) 246 - 4210
Mid City Scrap & Salvage	White Goods	Westport	(508) 675 - 7831
Trotta & Son Rubbish Removal	White Goods	Worcester	(508) 798 - 2271

● TEXTILES

(See also "scrap wool" or "scrap cotton" in the yellow pages.)

Goodman Wiping Cloth Co , Inc.	Textiles, Mill Ends, Remnants	Auburn, ME	(207) 784 - 5779
A Hamburger & Sons Co.	Textiles	Boston	(617) 268 - 5580
Sam Cohen Co., Inc.	Textiles	Brockton	(508) 586 - 2945
E R C Wiping Products	Mill Ends, Machinery Waste	Canton	(617) 821 - 6300
Textile Waste Supply Co.	Textiles	Charlestown	(617) 241 - 8100
Advance	Textiles	Chelmsford	(508) 250 - 4800
Industrial Wiper & Paper Corp.	Textiles	Chelsea	(617) 884 - 5550
Kutz Linter Co.	Textiles	Chicopee	(413) 598 - 8344
E Butterworth & Co., Inc.	Textiles, Cuttings, Remnants	Dracut	(508) 957 - 3500
Capital Paper Recycling Inc.	Textiles	East Weymouth	(617) 337 - 9807
Gitlin Brothers	Textiles	Fall River	(508) 673 - 5884
Vining Co. / Environmental Ideas	Textiles	Medford	(617) 279 - 0006
A A A Recycling Sales & Services	Textiles	New Bedford	(508) 999 - 9331
Ecosmith	Textiles	New Boston, NH	(603) 487 - 2339
Asian Export Material Co.	Leather	Newton	(617) 332 - 7929

TEXTILES (Cont.)

Shapiro & Sons, Inc.	Textiles	North Adams	(413) 663 - 6525
Oriental Export, Inc.	Textiles, Leather	Quincy	(617) 733 - 8662
Salvation Army	Textiles	Saugus	(800) 626 - 1122
Stratford Baling Co.	Textiles	Stratford, CT	(203) 377 - 7491
Veratec Nonwovens	Textiles	Walpole	(508) 660 - 3303
Jeffco Fibres Inc.	Textiles	Webster	(508) 949 - 0288
Mass Export	Textiles	Worcester	(508) 752 - 5496

● WOOD, CONSTRUCTION AND DEMOLITION (C&D) DEBRIS

(See also your yellow pages under: "Demolition", "Rubbish", "Trees", "Wood Waste")

Tilcon Mass	Asphalt	Acushnet	(508) 992 - 3542
King Road Materials	C & D	Albany, NY	(518) 382 - 5353
Deloury Construction Co.	Asphalt, Brick, Concrete	Andover	(508) 475 - 8153
Ashland Sand & Stone / S C F Mat'ls	Concrete	Ashland	(508) 881 - 7263
Browning-Ferris Industries	Wood Waste, Pallets	Auburn	(508) 832 - 9001
T L Edwards Inc.	Asphalt, Brick, Concrete	Avon	(508) 587 - 6953
W J Graves	Asphalt, Brick, Concrete	Baldwinville	(508) 939 - 5568
Universal Disposal & Recycling Co.	C & D, Pallets, Wood Waste	Becket	(413) 623 - 6021
PetroFiber Corporation	Clean Wood, Pallets, Fencing	Bedford, NH	(603) 626 - 6736
Belchertown Metal Recycling Co.	C & D	Belchertown	(413) 323 - 6639
Kimbal Sand Company	Asphalt, Brick, Concrete	Blackstone	(508) 883 - 1799
Browning-Ferris Industries	Pallets, Wood Waste	Boston	(617) 265 - 0500
Mario Susi & Son	Asphalt, Brick, Concrete	Boston	(617) 265 - 4525
Lion's Head Organics	Wood Waste	Braintree	(617) 356 - 2122
Big City Forest	Wood Waste, Pallets	Bronx, NY	(718) 299 - 1183
Bardon Trimount	Asphalt, Brick, Concrete, Soil	Burlington	(617) 221 - 8400
Lou Guarino Construction	C & D, Concrete	Canton	(617) 821 - 0170
American Reclamation Corp.	Asphalt, Brick, Concrete, C & D	Charlton	(508) 248 - 3777
Progressive Pallets	Pallets	Chelmsford	(508) 250 - 0095
Advance	Wood Waste, Pallets	Chelmsford	(508) 250 - 4800
Partyka Resource Management	Asphalt, Concrete, Soil, Wood, Pallets	Chicopee	(413) 785 - 1581
Ondrick Construction Co.	Asphalt, Brick, Concrete	Chicopee	(413) 592 - 2565
Browning-Ferris Industries	C & D	Chicopee	(800) 224 - 6234
Berkshire Clean-Way	C & D	Dalton	(413) 684 - 0165
Olde Bostonian	Bldg Materials & Fixtures	Dorchester	(617) 282 - 9300
Brox Industries	Asphalt, Tree Stumps	Dracut	(508) 454 - 9105
Cat Ridge Farm	Wood Waste	East Sandwich	(508) 833 - 0732
Capital Paper Recycling Inc.	C & D, Pallets, Wood Waste	East Weymouth	(617) 337 - 9807
Somers Sanitation	C & D, Pallets, Wood Waste	East Windsor, CT	(203) 623 - 2070
Labrie Asphalt & Construction	Asphalt, Brick, Concrete	Easthampton	(413) 527 - 6906
Wood Waste of Boston	Demolition Wood	Everett	(800) 726 - 6506
Lawrence-Lynch Corp.	Asphalt, Brick, Concrete	Falmouth	(800) 352 - 7188
Aaron Pallet	Pallets	Fitzwilliam, NH	(603) 585 - 9246
Conigliaro Industries	Pallets	Framingham	(508) 872 - 9668
Clean Harbors, Inc.	C & D	Glenmont, NY	(518) 434 - 0149
Roger Trucking	C & D, Pallets, Wood Waste	Great Barrington	(413) 528 - 3590
Martin's Farm	C & D, Pallets, Wood Waste	Greenfield	(413) 774 - 5631
Dave Wickles Trucking	C & D, Pallets, Wood Waste	Hatfield	(413) 247 - 9231

WOOD, CONSTRUCTION AND DEMOLITION (C&D) DEBRIS (Cont.)

P & T Recycling Services	C & D, Wood Waste	Haverhill	(800) 692 - 0009
Browning-Ferris Industries	Pallets, Wood Waste	Hooksett, NH	(603) 669 - 2282
M O S A	C & D	Howes Cave, NY	(518) 296 - 8884
Miles River Sand & Gravel	Asphalt, Brick, Concrete	Ipswich	(508) 356 - 2290
Greenleaf Composting	Wood Waste	Jamaica Plain	(617) 522 - 4477
N E E D	C & D	Johnston, RI	(401) 943 - 1630
ODonnell Sand & Gravel	Asphalt, Brick, Concrete	Kingston	(617) 585 - 6531
Black Diamond Trucking	C & D, Pallets	Lanesboro	(413) 447 - 7741
Browning-Ferris Industries	C & D, Wood Waste	Latham, NY	(518) 785 - 7030
Heritage Packaging	Pallets, Wood Waste	Lawrence	(508) 686 - 6127
Fuel Technologies, Inc.	C & D, Wood Waste	Lewiston, ME	(207) 783 - 2941
Boston Crushing	Concrete	Malden	(617) 324 - 0040
E D R, Inc.	C & D	Manchester, NH	(603) 647 - 0655
Cape Resources Company	Wood Waste	Marstons Mills	(508) 428 - 2613
John J Paonessa Co.	Asphalt, Brick, Concrete	Medford	(617) 395 - 7007
Vining Co. / Environmental Ideas	C & D, Pallets, Wood Waste	Medford	(617) 279 - 0006
Costello Dismantling Co. Inc.	C & D	Middleboro	(508) 946 - 0880
Master Garbologist	C & D, Pallets	New Marlboro	(413) 229 - 3442
Domtar Gypsum	Gypsum Wall Board	Newington, NH	(603) 433 - 8000
Environmental Action	C & D	North Adams	(413) 664 - 4936
Boro Sand & Gravel	Asphalt, Brick, Concrete	North Attleboro	(800) 649 - 2676
Schiavone & Sons	C & D	North Haven, CT	(203) 777 - 2591
Mass Wood Recycling, Inc.	Pallets, Wood Waste	North Oxford	(508) 829 - 8787
Duseau Waste Industries Inc.	C & D, Concrete, Brick, Clean Wood	Northampton	(413) 586 - 4100
Commercial Disposal	Demolition Wood	Northampton	(413) 584 - 6392
Cotton Tree Service, Inc.	Wood Waste	Northampton	(413) 584 - 9104
Goodale Construction	Asphalt, Brick, Concrete	Oak Bluffs	(508) 693 - 0768
Oakham Sand & Gravel	Asphalt, Brick, Concrete	Oakham	(508) 882 - 5286
Palmer Paving Corp.	Asphalt, Concrete	Palmer	(413) 283 - 8354
Allways Fibre Recycling Inc.	Pallets	Pittsfield	(413) 499 - 1522
J H Maxymillan Inc.	Asphalt, Brick, Concrete	Pittsfield	(413) 499 - 3050
Energy Answers Corp.	Demolition Wood	Pittsfield	(413) 443 - 7373
Vicon Recovery Associates	C & D, Pallets, Wood Waste	Pittsfield	(413) 443 - 7373
Lorusso Corp.	Asphalt, Brick, Concrete	Plainville	(508) 695 - 3252
Mayflower Sand & Gravel	Asphalt, Brick, Concrete	Plymouth	(800) 660 - 6404
James Grant Co.	C & D Debris, Soil	Readville	(617) 361 - 2716
Laidlaw Waste Systems	Wood Waste	Revere	(617) 289 - 0500
Building Block Coop	Cabinets, Doors, Sinks, Lumber	Roxbury	(617) 442 - 8917
Jet-A-Way / Kemble Waste	C & D	Roxbury	(617) 541 - 4000
Commercial Recycling & Paving Co.	C & D	Scarborough, ME	(207) 883 - 3325
Innovative Waste Services Inc.	C & D, Wood Waste	Somers, NY	(914) 232 - 2237
A - 1 Plumbing & Heating Supplies	Bldg Materials & Fixtures	Somerville	(617) 625 - 6140
State Line Scrap Co.	C & D	South Attleboro	(508) 399 - 8300
S & J Exco, Inc.	Wood Waste	South Dennis	(508) 398 - 9206
Jacques Construction Inc.	Asphalt, Brick, Concrete	South Hadley	(413) 539 - 9331
American Reclamation Corp.	C & D	Southborough	(508) 393 - 6333
Gagliarducci Construction	Asphalt, Brick, Concrete	Springfield	(413) 543 - 6978
Berkshire Paving	Asphalt, Brick, Concrete	Springfield	(413) 732 - 8207
Comchip Corp.	Pallets, Wood Waste	Springfield	(413) 737 - 3070

WOOD, CONSTRUCTION AND DEMOLITION (C&D) DEBRIS

E H Perkins Construction	Concrete	Sterling	(508) 358 - 6161
Stratford Baling Co.	C & D, Pallest, Wood Watse	Stratford, CT	(203) 377 - 7491
Lopes Construction	Demolition Wood, Concrete	Taunton	(508) 824 - 4834
New England Recycling Co.	Wood Waste	Taunton	(508) 822 - 4345
Cosentino Salvage & Recycling	C & D	Templeton	(508) 939 - 2559
Hood Sand & Gravel	Asphalt, Brick, Concrete	Uxbridge	(508) 278 - 3008
Waste Management Inc.	C & D, Wood Waste	Wakefield	(617) 246 - 4210
Cardi Materials Corp.	Asphalt, Concrete, Soil	Warwick, RI	(401) 739 - 8300
Arthur Schofield, Inc.	Wood Waste	Wayland	(508) 358 - 2503
Commercial Disposal Inc.	C & D, Pallets	West Springfield	(413) 443 - 9474
E L Harvey & Sons	Concrete, Pallets, Wood Waste	Westborough	(800) 321 - 3002
B & D Pallet Co.	Pallets, Wood Waste	Westfield	(413) 568 - 9624
Pacella Development Corp.	Concrete	Westford	(508) 692 - 3532
Heffron Materials	Asphalt, Brick, Concrete	Wilmington	(508) 658 - 3602
Kaknes Wood Products	Pallets, Wood Waste	Woburn	(617) 933 - 3818
Wood Recycling, Inc.	C & D, Wood Waste	Woburn	(800) 982 - 8732

● YARD WASTE AND LEAF COMPOSTING

(These companies service organic yard waste only -- see "Lanscaping" in the yellow pages. For other WOOD, see "Wood, Construction and Demolition Debris" above.)

Agresource, Inc.	Yard Waste	Amesbury	(508) 388 - 5110
Browning-Ferris Industries	Yard Waste	Auburn	(508) 832 - 9001
Browning-Ferris Industries	Yard Waste	Boston	(617) 265 - 0500
Lion's Head Organics	Leaves, Yard Waste	Braintree	(617) 356 - 2122
Pine Meadow Landscape	Leaves	Canton	(617) 575 - 9119
Advance	Yard Waste	Chelmsford	(508) 250 - 4800
Partyka Resource Management	Yard Waste	Chicopee	(413) 785 - 1581
Brox Industries	Yard Waste	Dracut	(508) 454 - 9105
Organic Recycling Inc.	Leaves, Yard Waste	East Greenwich, RI	(401) 884 - 1455
Cat Ridge Farm	Wood, Stumps	East Sandwich	(508) 833 - 0732
Somers Sanitation	Yard Waste	East Windsor, CT	(203) 623 - 2070
Browning-Ferris Industries	Yard Waste	Fall River	(508) 678 - 8860
Browning-Ferris Industries	Leaves, Yard Waste	Fall River	(508) 678 - 8860
Earthgrow Compost Services	Leaves, Grass, Yard Waste	Framingham	(508) 788 - 0623
Martin's Farm	Yard & Food Waste	Greenfield	(413) 774 - 5631
Dave Wickles Trucking	Yard & Food Waste	Hatfield	(413) 247 - 9231
P & T Recycling Services	Food Waste	Haverhill	(800) 692 - 0009
Browning-Ferris Industries	Yard Waste	Hooksett, NH	(603) 669 - 2282
High Acres Associates	Leaves, Yard Waste	Hopkington	(508) 435 - 5927
Greenleaf Composting	Yard & Food Waste	Jamaica Plain	(617) 522 - 4477
Cape Resources Company	Leaves, Stumps	Marstons Mills	(508) 428 - 2613
Sam White and Sons	Leaves, Yard Waste	Medfield	(508) 359 - 7291
Vining Co. / Environmental Ideas	Yard Waste	Medford	(617) 279 - 0006
J M Cook Co.	Wood, Yard Waste, Stumps	Mendon	(508) 634 - 3300
Agresource	Leaves, Yard Waste	Merrimac	(508) 346 - 9286
Moody Hill Farms	Yard Waste	Millerton, NY	(518) 789 - 3252
Woods End Research Lab	Yard & Food Waste	Mount Vernon, ME	(207) 293 - 2457
Horacio Furtado Landscaping	Leaves, Yard Waste	New Bedford	(508) 996 - 6677

YARD WASTE AND LEAF COMPOSTING (Cont.)

Mass Wood Recycling, Inc.	Yard Waste	North Oxford	(508) 829 - 8787
Cotton Tree Service, Inc.	Wood, Tree Stumps	Northampton	(413) 584 - 9104
Smith Vocational-Agricultural H S	Food Waste	Northampton	(413) 586 - 1013
Duseau Waste Industries Inc.	Leaves, Grass, Yard Waste	Northampton	(413) 586 - 4100
Fine Tree Farm	Leaves, Yard Waste	Rehoboth	(508) 226 - 3734
Laidlaw Waste Systems	Wood, Stumps, Leaves	Revere	(617) 289 - 0500
S & J Exco, Inc.	Wood, Leaves	South Dennis	(508) 398 - 9206
Stratford Baling Co.	Yard & Food Waste	Stratford, CT	(203) 377 - 7491
New England Recycling Co.	Wood, Stumps	Taunton	(508) 822 - 4345
Waste Management Inc.	Yard & Food Waste	Wakefield	(617) 246 - 4210
Arthur Schofield, Inc.	Wood, Leaves, Stumps	Wayland	(508) 358 - 2503
E L Harvey & Sons	Yard Waste	Westborough	(800) 321 - 3002
Westwood Nurseries	Leaves, Yard Waste	Westwood	(617) 329 - 4822
Halchak Corporation	Leaves, Wood, Stumps	Winchester	(617) 729 - 7077
Wood Recycling, Inc.	Yard Waste	Woburn	(800) 982 - 8732
Recycled Wood Products	Wood, Leaves	Woburn	(617) 933 - 3818

● MISCELLANEOUS WASTES:

(See also "Junk Dealers" or "Tire Recycling" in the yellow pages.)

AUTOMOTIVE: ANTIFREEZE, CAR BATTERIES, MOTOR OIL & FILTERS, TIRES, UNWANTED VEHICLES

Ecology Tire Co.	Remould Tires	Acton	(800) 597 - 3342
Main Line Tires	Tires	Acushnet	(508) 995 - 0690
Greylock Ice & Fuel	Tires, Car Batteries	Adams	(413) 743 - 1020
Springfield Resource Recovery	Tires	Agawam	(413) 785 - 5120
Hodgdon Brothers	Tires, Car Batteries	Ascutney, NY	(802) 674 - 6202
S Spiegel Co.	Car Batteries	Avon	(800) 696 - 9921
Tolman Construction Services	Oil Filters	Baldwinville	(800) 231 - 4873
Universal Disposal & Recycling Co	Oils, Tires	Becket	(413) 623 - 6021
Belchertown Metal Recycling Co.	Car Batteries	Belchertown	(413) 323 - 6639
Berlin Auto Parts	Car Batteries	Berlin	(508) 838 - 2991
A Wilson Inc.	Tires	Boston	(508) 871 - 5151
Recycled Auto Parts of Brattleboro	Car Batteries, Tires	Brattleboro	(802) 254 - 9034
C R T	Oils	Bridgewater	(800) 833 - 8278
Brockton Iron & Steel	Car Batteries	Brockton	(508) 586 - 4640
Brockton Auto Parts	Car Batteries	Brockton	(508) 584 - 4000
Casing, Inc.	Tires	Catskill, NY	(518) 943 - 9404
Multimetco Corp.	Car Batteries	Chelsea	(800) 458 - 0999
Delmolino Trucking	Tires	Cheshire	(413) 743 - 5397
Partyka Resource Management	Car Batteries, Tires	Chicopee	(413) 785 - 1581
Recycling Services, Inc.	Car BAtteries	Claremont, NH	(603) 542 - 8755
Advanced Recycling	Car Batteries	Concord, NH	(800) 227 - 3911
Berkshire Clean-Way	Tires	Dalton	(413) 684 - 0165
Lenox Junk	Car Batteries	Dorchester	(617) 288 - 2841
Lewis Philip & Sons	Car Batteries	Dorchester	(617) 442 - 1250
N E Appliance Recovery Systems	Car Batteries	East Freetown	(508) 763 - 3900
Somers Sanitation	Tires	East Windsor, CT	(203) 623 - 2070
Tires into Recycl. Energy Sources	Tires, Mfg. Rubber	Eliot, ME	(207) 439 - 5974
Roland's Tire Service	Tires	Fairhaven	(508) 997 - 4501

AUTOMOTIVE: ANTIFREEZE, CAR BATTERIES, MOTOR OIL & FILTERS, TIRES, UNWANTED VEHICLES (Cont.)

Conigliaro Industries	Tires	Framingham	(508) 872 - 9668
Framingham Salvage	Car Batteries	Framingham	(508) 872 - 4393
Clean Harbors, Inc.	Car Batteries	Glenmont, NY	(518) 434 - 0149
Linsky Recycling, Inc	Car Batteries, Tires	Gloucester	(508) 283 - 1893
Speedway Metals	Car Batteries	Greenfield	(413) 774 - 3664
Kramer Scrap Division	Car Batteries	Greenfield	(413) 774 - 3103
Cri-Tech, Inc.	Tires	Hanover	(508) 826 - 5600
Raynham Tire Recycling Inc.	Tires, Oils	Hanover	(617) 829 - 8840
Rome Recycling Corp.	Car Batteries	Hartford, CT	(203) 951 - 3186
Dave Wickles Trucking	Tires, Car Batteries	Hatfield	(413) 247 - 9231
W F Sullivan Company Inc.	Car Batteries.	Holyoke	(413) 539 - 9664
M O S A	Tires, Car Batteries	Howes Cave, NY	(518) 296 - 8884
J Crocker Metals Co.	Car Batteries	Jaffrey, NH	(603) 532 - 8302
Pinetree Waste Corp.	Car Batteries	Keene, NH	(603) 357 - 4586
Black Diamond Trucking	Tires, Car Batteries	Lanesboro	(413) 447 - 7741
Browning-Ferris Industries	Car Batteries, Tires	Latham, NY	(518) 785 - 7030
J P Carroll Co., Inc.	Car Batteries	Lexington	(617) 861 - 6060
Routhier & Sons, Inc.	Tires	Littleton	(508) 772 - 4251
Ostrinsky Inc.	Car Batteries	Manchester, CT	(203) 643 - 5879
E D R, Inc.	Car Batteries	Manchester, NH	(603) 647 - 0655
Bob's Tire Company	Tires	Mattapoisett	(508) 997 - 8545
Connecticut Waste Oil, Inc.	Motor Oil, Oil Filters	Meriden, CT	(203) 235 - 8889
M Wilder & Sons	Car Batteries	Meriden, CT	(203) 235 - 4225
Millis Used Auto Parts	Tires	Millis	(508) 376 - 8700
Recycling Products Company	Tires	Milton	(617) 698 - 7236
F & B Enterprises, Inc.	Car Batteries	New Bedford	(508) 999 - 4124
H Bixon & Sons	Car Batteries	New Haven, CT	(203) 777 - 7445
Master Garbologist	Oils, Tires	New Marlboro	(413) 229 - 3442
Asian Export Material Co.	Car Batteries	Newton	(617) 332 - 7929
Pine State Recycling	Tires	Nobleboro, ME	(207) 832 - 6514
Shapiro & Sons, Inc.	Car Batteries	North Adams	(413) 663 - 6525
George Apkin & Sons, Inc.	Car Batteries	North Adams	(413) 664 - 4936
Miller Recycling Corporation	Car Batteries	North Attleboro	(800) 783 - 6766
Acme Auto Salvage	Car Batteries	North Dartmouth	(508) 993 - 7362
Tire Pond	Tires	North Haven, CT	(203) 288 - 5604
Duseau Waste Industries Inc.	Car Batteries, Tires	Northampton	(413) 586 - 4100
American Waste Oil	Motor Oil	Pawtucket, RI	(401) 861 - 6243
Vicon Recovery Associates	Tires, Car Batteries	Pittsfield	(413) 443 - 7373
Louis Perlman & Sons Inc.	Car Batteries	Pittsfield	(413) 442 - 7127
Oxford Tire Recycling	Tires	Plainfield, CT	(800) 873 - 8473
J W Green Co.	Car Batteries	Plainville, CT	(203) 747 - 5514
P D M Salvage Corp.	Tires	Qincy	(617) 472 - 9251
Ad Tire Recycling, Inc.	Tires	Quincy	(617) 773 - 8846
Mayflower Salvage Co.	Motor Oil	Raynham	(508) 880 - 6002
Exide Corporation	Car Batteries	Reading, PA	(215) 378 - 0500
T A Predel & Sons	Car Batteries	Schencectady, NY	(518) 346 - 3445
Innovative Waste Services Inc.	Car Batteries	Somers, NY	(914) 232 - 2237
Atlas Metals, Inc.	Car Batteries	Somerville	(617) 666 - 8440
Nissenbaum Auto	Car Batteries	Somerville	(617) 776 - 0194

AUTOMOTIVE: ANTIFREEZE, CAR BATTERIES, MOTOR OIL & FILTERS, TIRES, UNWANTED VEHICLES (Cont.)

State Line Scrap Co.	Car Batteries	South Attleboro	(508) 399 - 8300
Acme Metals & Recycling, Inc.	Car Batteries	Springfield	(413) 737 - 3112
Joseph Freedman Co., Inc.	Car Batteries	Springfield	(413) 781 - 4444
R & R Industries	Tires	Springfield	(413) 733 - 2118
Exeter Energy Project	Tires	Sterling, CT	(203) 564 - 7000
Oil Energy Recovery Inc	Motor Oil	Stow	(508) 897 - 6040
Stratford Baling Co.	Oils	Stratford, CT	(203) 377 - 7491
Curboy Salvage	Car Batteries	Sturbridge	(508) 347 - 9650
Tewksbury Industries	Car Batteries	Tewksbury	(508) 851 - 5946
D A Paulin, Inc.	Car Batteries	Topsfield	(508) 887 - 2560
Waste Management Inc.	Tires, Car Batteries	Wakefield	(617) 246 - 4210
A & A Waste Oil	Motor Oil, Car Batteries	Waltham	(617) 899 - 3348
Robertson's Auto Salvage	Tires, Car Batteries	Wareham	(508) 295 - 9444
Albert Brothers	Car Batteries	Waterbury, CT	(203) 753 - 4146
Discas Recycled Products Corp.	Car Batteries	Waterbury, CT	(203) 735 - 5147
S E M A S S Recycling	Tires	West Wareham	(508) 291 - 2122
E L Harvey & Sons	Car Batteries	Westborough	(800) 321 - 3002
Murphy's Waste Oil Service	Antifreeze, Motor Oil, Filters	Woburn	(617) 272 - 4211
Bill Murphy's Waste Oil	Antifreeze, Motor Oil	Woburn	(617) 933 - 4928
Goldstein Scrap Metal	Car Batteries	Worcester	(508) 754 - 5711

BATTERIES (OTHER THAN CAR):

Springfield Resource Recovery	Button batts (10-towns)	Agawam	(413) 785 - 5120
Mercury Refining Co., Inc.	All types	Albany, NY	(800) 833 - 3505
Conigliaro Industries	Other Batteries	Framingham	(508) 872 - 9668
Wheelabrator Environmental Systems	Button batts & Ni-Cads (contract towns)	Hampton, NH	(800) 682 - 0026
Dave Wickles Trucking	Other Batteries	Hatfield	(413) 247 - 9231
E D R, Inc.	Other Batteries	Manchester, NH	(603) 647 - 0655
Global Recycling Technologies	All Types	Stoughton	(617) 341 - 6080
Recharg. Battery Recycling Corp	Nickel-Cadmium Rechargeble	Upper Saddle River, N	(800) 822 - 8837
National Electric Manufacturers Assn	Info on Battery Recycling	Washington, DC	(202) 457 - 8400

FLUORESCENT FIXTURES:

Mercury Refining Co., Inc.	Fluor Lamps, Ballasts	Albany, NY	(800) 833 - 3505
A E R C	Fluorescent Ballasts	Allentown, PA	(800) 554 - 2372
Bluestone Energy Services	Fluorescent Ballasts	Braintree	(617) 356 - 8865
FulCircle Ballast Recyclers	Fluorescent Lamps	Bronx, NY	(800) 775 - 1516
FulCircle Ballast Recyclers	Fluorescent Lamps, Ballasts	Cambridge	(617) 876 - 2229
Advanced Recycling	Fluorescent Lamps	Concord, NH	(800) 227 - 3911
American Lamp Recycling	Fluorescent Bulbs	Fish Kill, NY	(800) 315 - 6262
Conigliaro Industries	Fluorescent Bulbs	Framingham	(508) 872 - 9668
Advanced Environmental Technology	Fluorescent Lamps	Marlboro	(508) 460 - 9960
Environmental Waste Technology	Fluorescent Ballasts	Newton	(617) 332 - 2877
Advanced Environmental Technology	Fluorescent Lamps	Rocky Hill, CT	(800) 367 - 2382
Ensquare, Inc.	Fluorescent Ballasts	Somerville	(617) 776 - 7320
Alta Resource Management	Fluor Lamps, Ballasts	Springfield	(413) 734 - 3399
Nowick Environmental Assocs.	Fluorescent Ballasts	Springfield	(413) 747 - 1611
Global Recycling Technologies	Fluor / Merc Lamps, Ballasts	Stoughton	(617) 341 - 6080
Salesco Systems USA	Fluorescent Ballasts	Stoughton	(617) 344 - 4074

PAINT:

Durant Paint & Wallpaper	Latex & Oil Paints,Stains	Revere	(617) 289 - 1400
Green Paint Company	Latex & Oil Base Paint	Whitinsville	(508) 476 - 1992

PHOTOGRAPHIC:

Safety Kleen	Photographic Waste and Film	Canton	(617) 828 - 5445

● IMPORTANT END-MARKETS, MRF's* & MILLS

The following companies represent END-MARKETS accepting only DENSIFIED shipments of large quantities. Trucking services must be arranged with a 3rd party shipper.

James River Corp.	High Grade Paper	Adams	(413) 743 - 0290
Ash Trading Corp.	High Grade Paper	Albany, NY	(518) 463 - 6666
Statler Tissue	High Grade Paper	Augusta, ME	(207) 623 - 4731
American Tissue	All Grade Paper	Baldwinville	(508) 939 - 5359
Seaman Paper Co.	High Grade Paper	Baldwinville	(508) 939 - 5356
w T e Corporation	Materials Recovery Facility	Bedford	(617) 275 - 6400
Browning-Ferris Industries	Materials Recovery Facility	Brockton	(508) 580 - 1511
Prins Recycling Center	Materials Recovery Facility	Charlestown	(617) 242 - 7746
Crane & Co., Inc.	High Grade Paper	Dalton	(413) 684 - 2600
Anchor Glass Container Corp.	Clear and Brown Glass	Dayville, CT	(203) 774 - 9636
Erving Paper Mill	High Grade Paper	Erving	(800) 252 - 9208
Roland - Fitchburg Paper	High Grade Paper	Fitchburg	(508) 345 - 0309
Crocker Technical Papers	High Grade Paper	Fitchburg	(508) 345 - 7771
Stevens & Thompson Tissue	Baled High Grade Paper	Greenwich, NY	(518) 692 - 2212
Newark Paperboard / Haverhill	All Grade Paper	Haverhill	(508) 373 - 4111
Sonoco Products Co.	All Grade Paper	Holyoke	(413) 563 - 4546
Browning-Ferris Industries	Materials Recovery Facility	Hooksett, NH	(603) 669 - 2282
Rising Paper Co.	High Grade Paper	Housatonic	(413) 274 - 3345
Bay State Paper Co.	OCC	Hyde Park	(617) 361 - 350[illegible]
C R inc. Material Recovery	Materials Recovery Facility	Johnston, RI	(401) 944 - 1501
Newark Paperboard / Lawrence	All Grade Paper	Lawrence	(508) 687 - 7100
Merrimac Paper Co.	High Grade Paper	Lawrence	(508) 683 - 2754
Plastican	Pelletized HDPE	Leominster	(508) 537 - 4911
Perkit Folding Box	Low Grade Paper	Mattapan	(617) 361 - 1057
Foster Forbes	Clear and Brown Glass	Milford	(508) 478 - 2500
Newark Paperboard / Natick	All Grade Paper	Natick	(508) 653 - 9100
Texon USA	High Grade Paper	Russell	(413) 862 - 3652
Westfield Paper	High Grade Paper	Russell	(413) 862 - 3636
Federal Paperboard	All Grade Paper	Sprague, CT	(203) 823 - 3650
PureTech	PET, Custom PET	Springfield	(413) 736 - 0830
Resource Recovery Systems Inc.	Materials Recovery Facility	Springfield	(203) 767 - 7057
Springfield Materials Recovery Facility	Materials Recycling Facility	Springfield	(413) 784 - 1100
Cascade Diamond, Inc	Newspaper	Thorndike	(413) 283 - 8301
Esleeck Manufacturing	High Grade Paper	Turners Falls	(413) 863 - 4326
R R T Inc.	Materials Recovery Facility	Vestal, NY	(607) 798 - 7137
Automated Recycling	Materials Recovery Facility	West Bridgewater	(800) 640 - 7565
Southworth Co.	High Grade Paper	West Springfield	(413) 732 - 5141
Strathmore Paper Co.	High Grade Paper	Woronoco	(413) 568 - 9111

* MRF = Materials Recovery/Recycling Facility

Other Sources of Recycling Market Information

- **Aluminum Association** (202) 862-5100
  Washington, DC
  Provides market information & promotes aluminum recycling.

- **American Forest & Paper Association (AFPA)**
  Paper Information Center (202) 463-2700
  Washington, DC
  Provides market information, publications, videos and other resources about the paper industry

- **American Plastics Council** (800) 2-HELP-90
  Washington, DC
  Provides market information on recyclable plastics and offers technical assistance for establishing recycling programs.

- **American Recycling Markets** (800) 267-0707
  Ogdensburg, NY
  Call to order a Guide (subscription fee) with information on recycled products, recycled material markets, and recycled products purchasing.

- **Aseptic Packaging Council** (202) 333-5900
  Washington, DC
  Promotes recycling of drink boxes and milk cartons, and provides resources for setting up school and residential recycling programs.

- **Buy Recycled Business Alliance** (800) 369-3333
  Northampton, MA
  A group of companies which are making a volunteer commitment to increase their purchase of products with recycled content.

- **Center for Ecological Technology (CET)**
  Pittsfield & Northampton, MA (413) 445-4556
  Provides Western Mass. with information, education, and services on recycling, energy and waste management.

- **Composting Council** (703) 739-2401
  Alexandria, VA
  Provides information, educational materials and resources on composting.

- **Container Recycling Institute** (202) 797-6839
  Washington, DC
  Provides recycling information for all types of beverage containers and technical assistance on ways to reduce container and packaging waste.

- **Council for Textile Recycling** (301) 656-1077
  Bethesda, MD
  Provides educational and resource information for recycling textiles or purchasing recycled textile products.

- **Earthworm, Inc.** (617) 628-1844
  Somerville, MA
  Provides information, education and guidance on recycling programs for institutions, schools and residents.

- **E-Call, The Ecology Hotline** (800) 800-6881
  Boston, MA within (617) REC-YCLE
  Hotline service that provides updates on the latest recycling information for every city and town in Mass.

- **Environmental Defense Fund** (800)CALL-EDF
  New York, NY
  Refers callers to sources of recycling information by zip code.

- **Fundamental Action to Conserve Energy (FACE)**
  Fitchburg, MA (508) 345-5385
  Provides conservation information on energy and recycling issues in North Central Mass.

- **Glass Packaging Institute** (202) 887-4850
  Washington, DC
  Provides market information and promotes the recycling of glass containers.

- **Institute of Scrap Recycling Industries**
  Washington, DC (202) 737-1770
  Information on all types of scrap recycling.

- **MassRecycle** (617) 338-0244
  Boston, MA
  A statewide coalition dedicated to promoting waste reduction, reuse and recycling in Mass. Publishes a newsletter with Mass. market information.

- **National Electrical Manufacturers Association**
  Washington, DC (202) 457-8400
  Information on source reduction and recycling of batteries.

- **National Office Paper Recycling Project**
  U.S. Conference of Mayors (202) 293-7330
  Washington, DC
  Publications on paper grades, office paper recycling, and purchasing of recycled papers.

- **National Recycling Coalition** (202) 625-6406
  Washington, DC
  A national coalition dedicated to recycling, source reduction, composting, market development and buy recycled programs. Publishes a newsletter with national market information.

- **National Solid Wastes Management Association -**
  N.E. Region (508) 650-0224
  Natick, MA
  Information on solid waste and recycling.

- **Northeast Resource Recovery Association**
  Concord, NH (603) 224-6996
  A cooperative for the marketing of recyclables. Provides market information, education, and technical assistance about recycling for its members.

Other Sources of Recycling Market Information (Continued)

- **Paper Matcher: A Directory of Paper Recycling Markets (AFPA)** **(212) 340-0600**
  New York, NY
  A directory of paper markets in the U.S. which includes mills, paper dealers and recycling centers.

- **Polystyrene Packaging Council**
  Washington, DC **(202) 371-5269**
  Provides market information, educational and resource materials about polystyrene recycling.

- **Scrap Tire Management Council**
  Washington, DC **(202) 408-7783**
  Provides market and resource information about scrap tire recycling.

- **Steel Recycling Institute** **(508) 266-1847**
  Northeast Regional Office
  Boxboro, MA
  Promotes steel recycling and provides educational materials to assist in program implementation.

- **Waste Cap of Massachusetts** **(617) 236-7715**
  Boston, MA
  Provides business-helping-business recycling services and education at no cost.

Periodicals on Recycling:

■ BioCycle	(215) 967-4135
■ Fibre Market News	(800) 456-0707
■ Garbage	(718) 788-1700
■ Paper Stock Report	(216) 923-8042
■ Recycled Paper News	(703) 642-1120x116
■ Recycling Times	(202) 659-4613
■ Recycling Today	(800) 456-0707
■ Resource Recycling	(503) 227-1319
■ Waste Age	(202) 861-0708
■ Waste Dynamics-Northeast	(202) 624-1442

Massachusetts Regional Recycling Districts

- **Carver-Marion Wareham Regional Refuse District**
  Town Hall, 2 Spring Street
  Marion, MA 02738
  CONTACT: Ray Pickles, (508) 748-3550

- **Eastern Hampshire Refuse District**
  c/o Amherst Town Hall
  Amherst, MA 01002
  CONTACT: Karen Bouquillon, DPW, (413) 256-4050

- **Franklin County Solid Waste Management District**
  324 Wells St.
  Greenfield, MA 01301
  CONTACT: Bob Rottenberg, (413) 772-2438

- **Greater New Bedford Regional Refuse Management District**
  Dartmouth Town Hall, Room 214
  400 Slocum Road
  North Dartmouth, MA 02747
  CONTACT: Edith DeMello, (508) 993-2604

- **Martha's Vineyard Regional Refuse Disposal District**
  P.O. Box 2067
  Edgartown, MA 02539
  CONTACT: Charles Noonan, (508) 627-4501

- **Northern Berkshire Solid Waste Management District**
  18 East St.
  Adams, MA 01220
  CONTACT: Charlie Stufevant, (413) 684-3268

- **Orange/Athol Solid Waste District**
  Lake Mattawa
  Orange, MA 01364
  CONTACT: Bob Andrews, (508) 544-8555

- **Southern Berkshire Solid Waste Management District**
  P.O. Box 235
  Sheffield, MA 01257
  CONTACT: Susanna Leigh, (413) 229-3353

Massachusetts Regional Recycling Associations

Cape Cod Commission
Barnstable, Bourne, Brewster, Chatham, Dennis, Eastham, Falmouth, Harwich, Mashpee, Orleans, Provincetown, Sandwich, Truro, Wellfleet, Yarmouth
CONTACT: David Hall, Waste Management Coordinator, 3225 Main St., Barnstable, MA 02630, (508)362-3828

- **Central MA Resource Recovery Committee (CMRRC)**
  Auburn, Grafton, Holden, Leicester, Millbury, Northboro, Northbridge, Oxford, Rutland, Shrewsbury, Southboro, Webster, Westboro, West Boylston, Worcester
  CONTACT: Bob Fiore, Worcester DPW, 20 East Worcester St., Worcester, MA 01604, (508)799-1430

- **Coalition for North Central Waste Management (CONCEWM)**
  Ashburnham, Ashby, Ayer, Bolton, Boxborough, Clinton, Harvard, Littleton, Lunenburg, Pepperell, Princeton, Shirley, Sterling, Sudbury, Townsend, Westminster, Winchendon
  CONTACT: Don Leistikow, 28 Maple St . Ayer MA 01432, (508)772-3490.

- **Eastern Massachusetts Recycling Association (EMRA)**
  48 communities in the Route 128/95 area belong to this organization.
  CONTACT: Don Marshall, P.O. Box 12, Bedford, MA 01730, (617)275-0637.

- **Hilltown Resource Management Cooperative**
  Ashfield, Chesterfield, Cummington, Goshen, Hatfield, Huntington, Middlefield, Plainfield, Westhampton, Williamsburg Worthington
  CONTACT: Eric Weiss, Coordinator, P O Box 630, Williamsburg, MA 01096, (413)268-3845

- **Millis Consortium**
  Dedham, Foxborough, Framingham, Medfield, Medway, Millis, Natick, Needham, Norfolk, Norwood, Sherborn, Walpole, Westwood, Wrentham
  CONTACT: Robin Chapell, Town Hall, 135 School St. Walpole, MA 02081 (508)660-7320.

- **Northeast Regional Recycling Committee (NERRC)**
  Amesbury, Boxford, Georgetown, Groveland, Haverhill, Ipswich, Merrimac, Middleton, Newbury, Newburyport, Rowley, Salisbury, Topsfield, West Newbury
  CONTACT: Karen Sheridan, 10 Sheffield Rd., Boxford, MA 01921, (508)887-5519.

- **North East Solid Waste Committee (NESWC)**
  Acton, Andover, Arlington, Bedford, Belmont, Boxborough, Burlington, Carlisle, Dracut, Hamilton, Lexington, Lincoln, Manchester, North Andover, North Reading, Peabody, Tewksbury, Watertown, Wenham, Westford, West Newbury, Wilmington, Winchester
  CONTACT. Matt Zeltek, NESWC, 530 Atlantic Ave., Boston, MA 02210 (617) 443-1309

- **North Shore Regional Recycling Committee**
  Beverly, Boxford, Chelsea, Danvers, Essex, Everett, Gloucester, Hamilton, Ipswich, Lynn, Lynnfield, Marblehead, Melrose, Middleton, Nahant, Peabody, Reading, Revere, Rockport, Salem, Saugus, Swampscott, Topsfield, Wenham, Wilmington, Winthrop
  CONTACT: Rebecca Curran, Chair, 7 Widger Rd., Marblehead, MA 01944, (617)631-1529

- **South Central Recycling Association of Massachusetts (SCRAM)**
  Brimfield, Brookfield, East Brookfield, Hardwick, Leicester, New Braintree, North Brookfield, Spencer, Sturbridge, Ware, Warren, West Brookfield
  CONTACT: Carol Swete, DEP SERO - DSWM, 20 Riverside Drive, Lakeville, MA 02347, (508)946-2784

- **South Shore Regional Refuse Disposal Board**
  Cohasset, Duxbury, Hanover, Hingham, Hull, Marshfield, Norwell, Rockland, Scituate, Weymouth
  CONTACT. Ken Pelletier, Marshfield DPW, 870 Moraine St., Marshfield, MA 02050, (617)834-5559

- **Western & Central Massachusetts Materials Recycling Facility**
  102 communities in western and central Massachusetts
  CONTACT: Steve Ellis, DEP, 436 Dwight St., Springfield, MA 01103, (413)784-1100 Ext. 239.

NOTES

NOTES

HELP UPDATE The DEP's Recycling Services Directory

In order to keep this guide as accurate as possible, please complete and return this form as soon as you become aware of a correction or addition. Or you may call (617) 292-5745. Thank you.

Check:

- ☐ Addition
- ☐ Changes
- ☐ Deletion

Please give us the name, address, and telephone number of the recycling business, and describe the recycling services or activities.

(attach additionai sheets if necessary)

TO ORDER COPIES of The DEP's Recycling Services Directory

Copies of the DEP Recycling Services Directory are available free of charge. To order, send your name and address to Recycling Services Directory, c/o the address listed below.

Send ___ copies of the Massachusetts Recycling Services Directory to:

Recycling Services Directory
DEP Division of Solid Waste Management
One Winter Street, 4th Floor
Boston, MA 02108

Send To:

Appendix I

Pollution Prevention
Technical Assistance Programs

Pollution Prevention
Technical Assistance Programs

MADEP Pollution Prevention Coordinator
Lee Dillard
Deputy Assistant Commissioner, Office of Program Integration and Toxics Use Reduction Implementation
508-792-7692 ext 3775

Pollution Prevention Information Clearinghouse (PPIC)
U.S. Environmental Protection Agency
PM 211-A
401 M Street, SW
Washington, DC 20460
202-260-1023

The PPIC has pollution prevention information, a telephone reference and referral system, and a computerized information exchange system.

National Pollution Prevention Roundhouse
2000 P Street NW
Suite 708
Washington, DC 20036
202-466-7272

Pollution Prevention Information Exchange System (PIES)
EPA Systems Development Center
200 N. Glebe Road
Arlington, VA 22203
703-506-1025 (modem)

PIES is a free, 24 hour accessible network consisting of management centers, bulletins, technical data bases, case studies, and issue specific conference listings.

Federal Agency Mini-Exchange (FAME)
EPA Systems Development Center
200 N. Glebe Road
Arlington, VA 22203
703-506-1025 (modem)

FAME is a database on the PIES that provides information on pollution prevention/recycling efforts at federal facilities.

Defense Environmental Network and Information Exchange (DENIX)
DECIM Office
Hoffman 2, Room 12S49
200 Stovall Street
Alexandria, VA 22332
1-800-642-3332
703-325-0002

DENIX is a DOD communications platform for the dissemination and exchange of environmental information across all DOD components.

Center for Environmental Research Information (CERI)
Dorothy Williams
U.S. Environmental Protection Agency
Center for Environmental Research Information
26 West Martin Luther King Drive
Cincinnati, OH 45268
513-569-7562

CERI serves as the exchange of scientific and technical information produced by EPA in brochures, capsule and summary reports, handbooks, newsletters, project reports, and manuals.

Appendix J

Defense Logistic Agency Centers

December 1995

Chemical Alternatives, Recyclers, Aircraft Cleaners and more . . .

AROUND THE CLOCK, AROUND THE WORLD

DEFENSE
LOGISTICS
AGENCY

2nd Edition

This catalog has been expanded to include products from throughout the Defense Logistics Agency.

DLA offers more

Environmental products

The Defense Logistics Agency has hundreds of environmental products in its supply system ranging from citrus-based degreasers and complete antifreeze recycling systems to natural resource conservation products.

Purchasing these products can help you meet your organization's goals in:

- Reducing hazardous waste
- Eliminating use of ozone-depleting chemicals
- Protecting your employees, and
- Saving money

Many different units of issue are available to help ensure you buy only what you need. Most of these items can be shipped directly from the supplier to your location.

DLA has done the cataloging, item management and contracting for you and can ensure you receive the benefit of its purchasing power.

This catalog is divided into broad headings describing the types of products to assist you in selecting possible alternatives to hazardous chemicals or processes in use now.

For more information about environmental products, check the guide in this catalog and then call one of DLA's representatives today!

How do I order from DLA?

Preferred methods:

Automated systems using MILSTRIP/FEDSTRIP
or
GSA's Muffin System

Alternative methods:

Contact the appropriate inventory control point via:

FAX
Mail
ESEX
Internet home page address:
http://www.dscr.dla.mil

New environmental products are identified daily

DLA strives to meet its customers' needs by staying abreast of the latest technology and making new products available through the federal supply system. If you know of products which would be appropriate for inclusion in future editions, we want to hear from you!

If the product falls under one of the categories in this catalog, contact the technical or marketing representative at the appropriate supply center shown on pages *ii* and *iii*. In all other cases, contact contact the Defense Logistics Services Center, Battle Creek, Mich.

616-961-4958 or 5729	(Commercial)
932-4958 or 5729	(DSN)
932-5305	(FAX)

Reminder: Check with the process owner, engineering support activity, etc., before substituting an environmental product for a specified hazardous item.

S9E

Defense Electronics Supply Center
1507 Wilmington Pike
Dayton, Ohio 45444-5160

For more information on: Miscellaneous energy-saving devices for ADP equipment

Call:

Marketing	1-800-643-8825	DSN 986-6425	FAX 1-800-643-8827

S9F

Defense Fuel Supply Center
8725 John J. Kingman Road, Suite 2941
Fort Belvoir, Va. 22060-6221

For more information on: Bulk petroleum, oils and lubricants

Call:

Chemist	703-767-8358	DSN 427-8358	FAX 703-767-8366
Item Manager	703-767-9262	DSN 427-9262	FAX 703-767-9269
Marketing	703-767-8377	DSN 427-8377	FAX 703-767-8366

S9I

Defense Industrial Supply Center
700 Robbins Avenue
Philadelphia, Pa. 19111-5096

For more information on: Gaskets, fasteners, packing

Call

Technical Support	215-697-0930	DSN 442-0930	E-Mail srigefsky@disc.dla.mil
	215-697-4534	DSN 442-6671	E-Mail kmaute@disc.dla.mil
Material Branch	215-697-1172	DSN 442-1172	

Many commodities managed by the Defense Industrial Supply Center contain materials hazardous to personnel, the environment, or both. These materials include asbestos, cadmium and ozone depleting substances. They may be contained in the products the center manages and procures or in the manufacturing or testing process for products it buys.

DISC has an aggressive program to develop and secure Service approval for replacements for many of its commodities which formerly utilized hazardous materials. Once a replacement has been developed and approved by the Service, the center no longer offers the hazardous stock number to its customers.

An Asbestos Bulletin Board System is in place which will assist you in identifying DISC-managed national stock numbers that contain asbestos. Non-asbestos replacements are listed with the asbestos parts. Anyone with a computer and modem can access the system at 215-697-2340 or DSN 442-2340.

DISC will continue its program to develop additional non-hazardous replacements with the intent of replacing all hazardous related commodities with those that do not use hazardous materials in either the product or its manufacturing process.

S9C

Defense Supply Center Columbus
P. O. Box 3990
Columbus, Ohio 43216-5000

For more information on: Pest management equipment
Natural resource conservation products
Firefighting equipment

Call:

Hazardous Materials
Minimization Program..... 614-692-4249... DSN 850-4249..... FAX 614-692-1753
Item Manager ..... 614-692-2860... DSN 850-2860..... FAX 614-692-2862
Marketing ..... 614-692-1858... DSN 850-1858..... FAX 614-692-1293

S9G

Defense Supply Center Richmond
8000 Jefferson Davis Highway
Richmond, Va. 23297-5100

For more information on:

Aqueous cleaners/degreasers
Semi-aqueous cleaners/degreasers
Hydrocarbon-based or other cleaners/degreasers
Aircraft cleaning compounds
Spill control products
Skin protection barrier products
Cold climate applications
Support equipment/recycling products
Marine cleaning compounds
Remanufactured/recycled laser printer toner cartridges
Packaged petroleum, oils, and lubricants
Pesticides

Call:

Hazardous Technical
Information Services .... 1-800-848-4847... DSN 695-5168.... email gss5089@dscr.dla.mil

Chemicals
Technical ..... 804-279-3995... DSN 695-3995..... FAX DSN 695-6008
Item Manager..... 804-279-3540... DSN 695-3540..... FAX DSN 695-4403

Petroleum Products
Technical ..... 804-279-4257... DSN 695-4257..... FAX DSN 695-6418
Item Manager..... 804-279-3024... DSN 695-3024..... FAX DSN 695-3971

Marketing ..... 1-800-352-2852... DSN 695-6054..... FAX 1-800-352-3291
FAX DSN 685-5695

Appendix K

Executive Order 12856

Federal Register
Vol. 58, No. 150
Friday, August 6, 1993

Presidential Documents

Title 3—
The President

Executive Order 12856 of August 3, 1993

Federal Compliance With Right-to-Know Laws and Pollution Prevention Requirements

WHEREAS, the Emergency Planning and Community Right-to-Know Act of 1986 (42 U.S.C. 11001–11050) (EPCRA) established programs to provide the public with important information on the hazardous and toxic chemicals in their communities, and established emergency planning and notification requirements to protect the public in the event of a release of extremely hazardous substances;

WHEREAS, the Federal Government should be a good neighbor to local communities by becoming a leader in providing information to the public concerning toxic and hazardous chemicals and extremely hazardous substances at Federal facilities, and in planning for and preventing harm to the public through the planned or unplanned releases of chemicals;

WHEREAS, the Pollution Prevention Act of 1990 (42 U.S.C. 13101-13109) (PPA) established that it is the national policy of the United States that whenever feasible, pollution should be prevented or reduced at the source, that pollution that cannot be prevented should be recycled in an environmentally safe manner; that pollution that cannot be prevented or recycled should be treated in an environmentally safe manner; and that disposal or other release into the environment should be employed only as a last resort and should be conducted in an environmentally safe manner;

WHEREAS, the PPA required the Administrator of the Environmental Protection Agency (EPA) to promote source reduction practices in other agencies;

WHEREAS, the Federal Government should become a leader in the field of pollution prevention through the management of its facilities, its acquisition practices, and in supporting the development of innovative pollution prevention programs and technologies;

WHEREAS, the environmental, energy, and economic benefits of energy and water use reductions are very significant; the scope of innovative pollution prevention programs must be broad to adequately address the highest-risk environmental problems and to take full advantage of technological opportunities in sectors other than industrial manufacturing; the Energy Policy Act of 1992 (Public Law 102–486 of October 24, 1992) requires the Secretary of Energy to work with other Federal agencies to significantly reduce the use of energy and reduce the related environmental impacts by promoting use of energy efficiency and renewable energy technologies; and

WHEREAS, as the largest single consumer in the Nation, the Federal Government has the opportunity to realize significant economic as well as environmental benefits of pollution prevention;

AND IN ORDER TO:

Ensure that all Federal agencies conduct their facility management and acquisition activities so that, to the maximum extent practicable, the quantity of toxic chemicals entering any wastestream, including any releases to the environment, is reduced as expeditiously as possible through source reduction; that waste that is generated is recycled to the maximum extent practicable; and that any wastes remaining are stored, treated or disposed of in a manner protective of public health and the environment;

Require Federal agencies to report in a public manner toxic chemicals entering any wastestream from their facilities, including any releases to the environment, and to improve local emergency planning, response, and accident notification; and

Help encourage markets for clean technologies and safe alternatives to extremely hazardous substances or toxic chemicals through revisions to specifications and standards, the acquisition and procurement process, and the testing of innovative pollution prevention technologies at Federal facilities or in acquisitions;

NOW THEREFORE, by the authority vested in me as President by the Constitution and the laws of the United States of America, including the EPCRA, the PPA, and section 301 of title 5, United States Code, it is hereby ordered as follows:

Section 1. *Applicability.*

1-101. As delineated below, the head of each Federal agency is responsible for ensuring that all necessary actions are taken for the prevention of pollution with respect to that agency's activities and facilities, and for ensuring that agency's compliance with pollution prevention and emergency planning and community right-to-know provisions established pursuant to all implementing regulations issued pursuant to EPCRA and PPA.

1 102. Except as otherwise noted, this order is applicable to all Federal agencies that either own or operate a "facility" as that term is defined in section 329(4) of EPCRA, if such facility meets the threshold requirements set forth in EPCRA for compliance as modified by section 3-304(b) of this order ("covered facilities"). Except as provided in section 1-103 and section 1-104 below, each Federal agency must apply all of the provisions of this order to each of its covered facilities, including those facilities which are subject, independent of this order, to the provisions of EPCRA and PPA (*e.g.*, certain Government-owned/contractor-operated facilities (GOCO's), for chemicals meeting EPCRA thresholds). This order does not apply to Federal agency facilities outside the customs territory of the United States, such as United States diplomatic and consular missions abroad.

1-103. Nothing in this order alters the obligations which GOCO's and Government corporation facilities have under EPCRA and PPA independent of this order or subjects such facilities to EPCRA or PPA if they are otherwise excluded. However, consistent with section 1-104 below, each Federal agency shall include the releases and transfers from all such facilities when meeting all of the Federal agency's responsibilities under this order.

1-104. To facilitate compliance with this order, each Federal agency shall provide, in all future contracts between the agency and its relevant contractors, for the contractor to supply to the Federal agency all information the Federal agency deems necessary for it to comply with this order. In addition, to the extent that compliance with this order is made more difficult due to lack of information from existing contractors, Federal agencies shall take practical steps to obtain the information needed to comply with this order from such contractors.

Sec. 2-2. *Definitions.*

2-201. All definitions found in EPCRA and PPA and implementing regulations are incorporated in this order by reference, with the following exception: for the purposes of this order, the term "person", as defined in section 329(7) of EPCRA, also includes Federal agencies.

2-202. *Federal agency* means an Executive agency, as defined in 5 U.S.C. 105. For the purpose of this order, military departments, as defined in 5 U.S.C 102, are covered under the auspices of the Department of Defense.

2-203. *Pollution Prevention* means "source reduction," as defined in the PPA, and other practices that reduce or eliminate the creation of pollutants through: (a) increased efficiency in the use of raw materials, energy, water, or other resources; or (b) protection of natural resources by conservation.

2-204. *GOCO* means a Government-owned/contractor-operated facility which is owned by the Federal Government but all or portions of which are operated by private contractors.

2-205. *Administrator* means the Administrator of the EPA.

2-206. *Toxic Chemical* means a substance on the list described in section 313(c) of EPCRA.

2-207. *Toxic Pollutants.* For the purposes of section 3-302(a) of this order, the term "toxic pollutants" shall include, but is not necessarily limited to, those chemicals at a Federal facility subject to the provisions of section 313 of EPCRA as of December 1, 1993. Federal agencies also may choose to include releases and transfers of other chemicals, such as "extremely hazardous chemicals" as defined in section 329(3) of EPCRA, hazardous wastes as defined under the Resource Conservation and Recovery Act of 1976 (42 U.S.C 6901–6986) (RCRA), or hazardous air pollutants under the Clean Air Act Amendments (42 U.S.C. 7403-7626); however, for the purposes of establishing the agency's baseline under 3-302(c), such "other chemicals" are in addition to (not instead of) the section 313 chemicals. The term "toxic pollutants" does not include hazardous waste subject to remedial action generated prior to the date of this order.

Sec. 3-3. *Implementation.*

3-301. *Federal Agency Strategy.* Within 12 months of the date of this order, the head of each Federal agency must develop a written pollution prevention strategy to achieve the requirements specified in sections 3-302 through 3–305 of this order for that agency. A copy thereof shall be provided to the Administrator. Federal agencies are encouraged to involve the public in developing the required strategies under this order and in monitoring their subsequent progress in meeting the requirements of this order. The strategy shall include, but shall not be limited to, the following elements:

(a) A pollution prevention policy statement, developed by each Federal agency, designating principal responsibilities for development, implementation, and evaluation of the strategy. The statement shall reflect the Federal agency's commitment to incorporate pollution prevention through source reduction in facility management and acquisition, and it shall identify an individual responsible for coordinating the Federal agency's efforts in this area.

(b) A commitment to utilize pollution prevention through source reduction, where practicable, as the primary means of achieving and maintaining compliance with all applicable Federal, State, and local environmental requirements.

3-302. Toxic Chemical Reduction Goals. (a) The head of each Federal agency subject to this order shall ensure that the agency develops voluntary goals to reduce the agency's total releases of toxic chemicals to the environment and off-site transfers of such toxic chemicals for treatment and disposal from facilities covered by this order by 50 percent by December 31, 1999. To the maximum extent practicable, such reductions shall be achieved by implementation of source reduction practices.

(b) The baseline for measuring reductions for purposes of achieving the 50 percent reduction goal for each Federal agency shall be the first year in which releases of toxic chemicals to the environment and off-site transfers of such chemicals for treatment and disposal are publicly reported. The baseline amount as to which the 50 percent reduction goal applies shall be the aggregate amount of toxic chemicals reported in the baseline year for all of that Federal agency's facilities meeting the threshold applicability requirements set forth in section 1-102 of this order. In no event shall the baseline be later than the 1994 reporting year.

(c) Alternatively, a Federal agency may choose to achieve a 50 percent reduction goal for toxic pollutants. In such event, the Federal agency shall delineate the scope of its reduction program in the written pollution prevention strategy

that is required by section 3-301 of this order. The baseline for measuring reductions for purposes of achieving the 50 percent reduction requirement for each Federal agency shall be the first year in which releases of toxic pollutants to the environment and off-site transfers of such chemicals for treatment and disposal are publicly reported for each of that Federal agency's facilities encompassed by section 3-301. In no event shall the baseline year be later than the 1994 reporting year. The baseline amount as to which the 50 percent reduction goal applies shall be the aggregate amount of toxic pollutants reported by the agency in the baseline year. For any toxic pollutants included by the agency in determining its baseline under this section, in addition to toxic chemicals under EPCRA, the agency shall report on such toxic pollutants annually under the provisions of section 3-304 of this order, if practicable, or through an agency report that is made available to the public.

(d) The head of each Federal agency shall ensure that each of its covered facilities develops a written pollution prevention plan no later than the end of 1995, which sets forth the facility's contribution to the goal established in section 3-302(a) of this order. Federal agencies shall conduct assessments of their facilities as necessary to ensure development of such plans and of the facilities' pollution prevention programs.

3-303. *Acquisition and Procurement Goals.* (a) Each Federal agency shall establish a plan and goals for eliminating or reducing the unnecessary acquisition by that agency of products containing extremely hazardous substances or toxic chemicals. Similarly, each Federal agency shall establish a plan and goal for voluntarily reducing its' own manufacturing, processing, and use of extremely hazardous substances and toxic chemicals. Priorities shall be developed by Federal agencies, in coordination with EPA, for implementing this section.

(b) Within 24 months of the date of this order, the Department of Defense (DOD) and the General Services Administration (GSA), and other agencies, as appropriate, shall review their agency's standardized documents, including specifications and standards, and identify opportunities to eliminate or reduce the use by their agency of extremely hazardous substances and toxic chemicals, consistent with the safety and reliability requirements of their agency mission. The EPA shall assist agencies in meeting the requirements of this section, including identifying substitutes and setting priorities for these reviews. By 1999, DOD, GSA and other affected agencies shall make all appropriate revisions to these specifications and standards.

(c) Any revisions to the Federal Acquisition Regulation (FAR) necessary to implement this order shall be made within 24 months of the date of this order.

(d) Federal agencies are encouraged to develop and test innovative pollution prevention technologies at their facilities in order to encourage the development of strong markets for such technologies. Partnerships should be encouraged between industry, Federal agencies, Government laboratories, academia, and others to assess and deploy innovative environmental technologies for domestic use and for markets abroad.

3-304. *Toxics Release Inventory/Pollution Prevention Act Reporting.* (a) The head of each Federal agency shall comply with the provisions set forth in section 313 of EPCRA, section 6607 of PPA, all implementing regulations, and future amendments to these authorities, in light of applicable guidance as provided by EPA.

(b) The head of each Federal agency shall comply with these provisions without regard to the Standard Industrial Classification (SIC) delineations that apply to the Federal agency's facilities, and such reports shall be for all releases, transfers, and wastes at such Federal agency's facility without regard to the SIC code of the activity leading to the release, transfer, or waste. All other existing statutory or regulatory limitations or exemptions on the application of EPCRA section 313 shall apply to the reporting requirements set forth in section 3-304(a) of this order.

(c) The first year of compliance shall be no later than for the 1994 calendar year with reports due on or before July 1, 1995

3-305. *Emergency Planning and Community Right-to-Know Reporting Responsibilities.* The head of each Federal agency shall comply with the provisions set forth in sections 301 through 312 of EPCRA, all implementing regulations, and future amendments to these authorities in light of any applicable guidance as provided by EPA. Effective dates for compliance shall be: (a) With respect to the provisions of section 302 of EPCRA emergency planning notification shall be made no later than 7 months after the date of this order.

(b) With respect to the provisions of section 303 of EPCRA all information necessary for the applicable Local Emergency Planning Committee (LEPC's) to prepare or revise local Emergency Response Plans shall be provided no later than 1 year after the date of this order.

(c) To the extent that a facility is required to maintain Material Safety Data Sheets under any provisions of law or Executive order, information required under section 311 of EPCRA shall be submitted no later than 1 year after the date of this order, and the first year of compliance with section 312 shall be no later than the 1994 calendar year, with reports due on or before March 1, 1995.

(d) The provisions of section 304 of EPCRA shall be effective beginning January 1, 1994.

(e) These compliance dates are not intended to delay implementation of earlier timetables already agreed to by Federal agencies and are inapplicable to the extent they interfere with those timetables.

Sec. 4–4. *Agency Coordination.*

4–401. By February 1, 1994, the Administrator shall convene an interagency Task Force composed of the Administrator, the Secretaries of Commerce, Defense, and Energy, the Administrator of General Services, the Administrator of the Office of Procurement Policy in the Office of Management and Budget, and such other agency officials as deemed appropriate based upon lists of potential participants submitted to the Administrator pursuant to this section by the agency head. Each agency head may designate other senior agency officials to act in his/her stead, where appropriate. The Task Force will assist the agency heads in the implementation of the activities required under this order.

4–402. Federal agencies subject to the requirements of this order shall submit annual progress reports to the Administrator beginning on October 1, 1995. These reports all include a description of the progress that the agency has made in complying with all aspects of this order, including the pollution reductions requirements. This reporting requirement shall expire after the report due on October 1, 2001.

4–403. *Technical Advice.* Upon request and to the extent practicable, the Administrator shall provide technical advice and assistance to Federal agencies in order to foster full compliance with this order. In addition, to the extent practicable, all Federal agencies subject to this order shall provide technical assistance, if requested, to LEPC's in their development of emergency response plans and in fulfillment of their community right-to-know and risk reduction responsibilities.

4–404. Federal agencies shall place high priority on obtaining funding and resources needed for implementing all aspects of this order, including the pollution prevention strategies, plans, and assessments required by this order, by identifying, requesting, and allocating funds through line-item or direct funding requests. Federal agencies shall make such requests as required in the Federal Agency Pollution Prevention and Abatement Planning Process and through agency budget requests as outlined in Office of Management and Budget (OMB) Circulars A-106 and A-11, respectively. Federal agencies should apply to the maximum extent practicable, a life cycle analysis and total cost accounting principles to all projects needed to meet the requirements of this order.

4–405. *Federal Government Environmentall Challenge Program.* The Administrator shall establish a "Federal Government Environmental Challenge Program" to recognize outstanding environmental management performance in Federal agencies and facilities. The program shall consist of two components that challenge Federal agencies; (a) to agree to a code of environmental principles to be developed by EPA, in cooperation with other agencies, that emphasizes pollution prevention, sustainable development and state of-the-art environmental management programs, and (b) to submit applications to EPA for individual Federal agency facilities for recognition as "Model Installations." The program shall also include a means for recognizing individual Federal employees who demonstrate outstanding leadership in pollution prevention.

Sec 5–5. *Compliance.*

5-501. By December 31,1993, the head of each Federal agency shall provide the Administrator with a preliminary list of facilities that potentially meet the requirements for reporting under the threshold provisions of EPCRA, PPA, and this order.

5-502. The head of each Federal agency is responsible for ensuring that such agency take all necessary actions to prevent pollution in accordance with this order, and for that agency's compliance with the provisions of EPCRA and PPA. Compliance with EPCRA and PPA means compliance with the same substantive, procedural, and other statutory and regulatory requirements that would apply to a private person. Nothing in this order shall be construed as making the provisions of sections 325 and 326 of EPCRA applicable to any Federal agency or facility, except to the extent that such Federal agency or facility would independently be subject to such provisions. EPA shall consult with Federal agencies, if requested, to determine the applicability of this order to particular agency facilities.

5-503. Each Federal agency subject to this order shall conduct internal reviews and audits, and take such other steps, as may be necessary to monitor compliance with sections 3-304 and 3-305 of this order.

5-504. The Administrator, in consultation with the heads of Federal agencies, may conduct such reviews and inspections as may be necessary to monitor compliance with sections 3-304 and 3-305 of this order. Except as excluded under section 6–601 of this order, all Federal agencies are encouraged to cooperate fully with the efforts of the Administrator to ensure compliance with sections 3-304 and 3-305 of this order.

5-505. Federal agencies are further encouraged to comply with all state and local right-to-know and pollution prevention requirements to the extent that compliance with such laws and requirements is not otherwise already mandated.

5-506. Whenever the Administrator notifies a Federal agency that it is not in compliance with an applicable provision of this order, the Federal agency shall achieve compliance as promptly as is practicable.

5-507. The EPA shall report annually to tho President on Federal agency compliance with the provisions of section 3-304 of this order.

5-508. To the extent permitted by law and unless such documentation is withheld pursuant to section 6–601 of this order, the public shall be afforded ready access to all strategies, plans, and reports required to be prepared by Federal agencies under this order by the agency preparing the strategy, plan, or report. When the reports are submitted to EPA, EPA shall compile the strategies, plans, and reports and make them publicly available as well. Federal agencies are encouraged to provide such strategies, plans, and reports to the State and local authorities where their facilities are located for an additional point of access to the public.

Sec. 6-6. *Exemption.*

6–601. In the interest of national security, the head of a Federal agency may request from the President an exemption from complying with the provisions of any or all aspects of this order for particular Federal agency facilities, provided that the procedures set forth in section 120(j)(1) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended (42 U.S.C. 9620(j)(1)), are followed. To the maximum extent practicable, and without compromising national security, all Federal agencies shall strive to comply with the purposes, goals, and implementation steps set forth in this order.

Sec. 7-7. *General Provisions.*

7-701. Nothing in this order shall create any right or benefit, substantive or procedural, enforceable by a party against the United States, its agencies or instrumentalities, its officers or employees, or any other person.

William J. Clinton

THE WHITE HOUSE,

August 3, 1993.

[FR Doc/ 93-19069

Filed 8-4-93; 4:37 pm]

Billing code 3195-01-P

Appendix L

Title 40, CFR, 1995 Revision, Part 112.7;
Oil Pollution Prevention

late the requirements of this part 112 by failing or refusing to comply with any of the provisions of § 112.3, § 112.4 or § 112.5 shall be liable for a civil penalty of not more than $5,000 for each day such violation continues. Civil penalties shall be imposed in accordance with procedures set out in part 114 of this subchapter D.

[57 FR 52705, Nov. 4, 1992]

§ 112.7 Guidelines for the preparation and implementation of a Spill Prevention Control and Countermeasure Plan.

The SPCC Plan shall be a carefully thought-out plan, prepared in accordance with good engineering practices, and which has the full approval of management at a level with authority to commit the necessary resources. If the plan calls for additional facilities or procedures, methods, or equipment not yet fully operational, these items should be discussed in separate paragraphs, and the details of installation and operational start-up should be explained separately. The complete SPCC Plan shall follow the sequence outlined below, and include a discussion of the facility's conformance with the appropriate guidelines listed:

(a) A facility which has experienced one or more spill events within twelve months prior to the effective date of this part should include a written description of each such spill, corrective action taken and plans for preventing recurrence.

(b) Where experience indicates a reasonable potential for equipment failure (such as tank overflow, rupture, or leakage), the plan should include a prediction of the direction, rate of flow, and total quantity of oil which could be discharged from the facility as a result of each major type of failure.

(c) Appropriate containment and/or diversionary structures or equipment to prevent discharged oil from reaching a navigable water course should be provided. One of the following preventive systems or its equivalent should be used as a minimum:

(1) Onshore facilities:

(i) Dikes, berms or retaining walls sufficiently impervious to contain spilled oil;

(ii) Curbing;

(iii) Culverting, gutters or other drainage systems;

(iv) Weirs, booms or other barriers;

(v) Spill diversion ponds;

(vi) Retention ponds;

(vii) Sorbent materials.

(2) Offshore facilities:

(i) Curbing, drip pans;

(ii) Sumps and collection systems.

(d) When it is determined that the installation of structures or equipment listed in § 112.7(c) to prevent discharged oil from reaching the navigable waters is not practicable from any onshore or offshore facility, the owner or operator should clearly demonstrate such impracticability and provide the following:

(1) A strong oil spill contingency plan following the provision of 40 CFR part 109.

(2) A written commitment of manpower, equipment and materials required to expeditiously control and remove any harmful quantity of oil discharged.

(e) In addition to the minimal prevention standards listed under § 112.7(c), sections of the Plan should include a complete discussion of conformance with the following applicable guidelines, other effective spill prevention and containment procedures (or, if more stringent, with State rules, regulations and guidelines):

(1) *Facility drainage (onshore); (excluding production facilities).* (i) Drainage from diked storage areas should be restrained by valves or other positive means to prevent a spill or other excessive leakage of oil into the drainage system or inplant effluent treatment system, except where plan systems are designed to handle such leakage. Diked areas may be emptied by pumps or ejectors; however, these should be manually activated and the condition of the accumulation should be examined before starting to be sure no oil will be discharged into the water.

(ii) Flapper-type drain valves should not be used to drain diked areas. Valves used for the drainage of diked areas should, as far as practical, be of manual, open-and-closed design. When plant drainage drains directly into water courses and not into wastewater treatment plants, retained storm water should be inspected as provided in paragraphs (e)(2)(iii) (B), (C) and (D) of this section before drainage.

(iii) Plant drainage systems from undiked areas should, if possible, flow into ponds, lagoons or catchment basins, designed to retain oil or return it to the facility. Catchment basins should not be located in areas subject to periodic flooding.

(iv) If plant drainage is not engineered as above, the final discharge of all in-plant ditches should be equipped with a diversion system that could, in the event of an uncontrolled spill, return the oil to the plant.

(v) Where drainage waters are treated in more than one treatment unit, natural hydraulic flow should be used. If pump transfer is needed, two "lift" pumps should be provided, and at least one of the pumps should be permanently installed when such treatment is continuous. In any event, whatever techniques are used facility drainage systems should be adequately engineered to prevent oil from reaching navigable waters in the event of equipment failure or human error at the facility.

(2) *Bulk storage tanks (onshore); (excluding production facilities).* (i) No tank should be used for the storage of oil unless its material and construction are compatible with the material stored and conditions of storage such as pressure and temperature, etc.

(ii) All bulk storage tank installations should be constructed so that a secondary means of containment is provided for the entire contents of the largest single tank plus sufficient freeboard to allow for precipitation. Diked areas should be sufficiently impervious to contain spilled oil. Dikes, containment curbs, and pits are commonly employed for this purpose, but they may not always be appropriate. An alternative system could consist of a complete drainage trench enclosure arranged so that a spill could terminate and be safely confined in an inplant catchment basin or holding pond.

(iii) Drainage of rainwater from the diked area into a storm drain or an effluent discharge that empties into an open water course, lake, or pond, and bypassing the in-plant treatment system may be acceptable if:

(A) The bypass valve is normally sealed closed.

(B) Inspection of the run-off rain water ensures compliance with applicable water quality standards and will not cause a harmful discharge as defined in 40 CFR part 110.

(C) The bypass valve is opened, and resealed following drainage under responsible supervision.

(D) Adequate records are kept of such events.

(iv) Buried metallic storage tanks represent a potential for undetected spills. A new buried installation should be protected from corrosion by coatings, cathodic protection or other effective methods compatible with local soil conditions. Such buried tanks should at least be subjected to regular pressure testing.

(v) Partially buried metallic tanks for the storage of oil should be avoided, unless the buried section of the shell is adequately coated, since partial burial in damp earth can cause rapid corrosion of metallic surfaces, especially at the earth/air interface.

(vi) Aboveground tanks should be subject to periodic integrity testing, taking into account tank design (floating roof, etc.) and using such techniques as hydrostatic testing, visual inspection or a system of non-destructive shell thickness testing. Comparison records should be kept where appropriate, and tank supports and foundations should be included in these inspections. In addition, the outside of the tank should frequently be observed by operating personnel for signs of deterioration, leaks which might cause a spill, or accumulation of oil inside diked areas.

(vii) To control leakage through defective internal heating coils, the following factors should be considered and applied, as appropriate.

(A) The steam return or exhaust lines from internal heating coils which discharge into an open water course should be monitored for contamination, or passed through a settling tank, skimmer, or other separation or retention system.

(B) The feasibility of installing an external heating system should also be considered.

(viii) New and old tank installations should, as far as practical, be fail-safe engineered or updated into a fail-safe engineered installation to avoid spills. Consideration should be given to providing one or more of the following devices:

(A) High liquid level alarms with an audible or visual signal at a constantly manned operation or surveillance station; in smaller plants an audible air vent may suffice.

(B) Considering size and complexity of the facility, high liquid level pump cutoff devices set to stop flow at a predetermined tank content level.

(C) Direct audible or code signal communication between the tank gauger and the pumping station.

(D) A fast response system for determining the liquid level of each bulk storage tank such as digital computers, telepulse, or direct vision gauges or their equivalent.

(E) Liquid level sensing devices should be regularly tested to insure proper operation.

(ix) Plant effluents which are discharged into navigable waters should have disposal facilities observed frequently enough to detect possible system upsets that could cause an oil spill event.

(x) Visible oil leaks which result in a loss of oil from tank seams, gaskets, rivets and bolts sufficiently large to cause the accumulation of oil in diked areas should be promptly corrected.

(xi) Mobile or portable oil storage tanks (onshore) should be positioned or located so as to prevent spilled oil from reaching navigable waters. A secondary means of containment, such as dikes or catchment basins, should be furnished for the largest single compartment or tank. These facilities should be located where they will not be subject to periodic flooding or washout.

(3) *Facility transfer operations, pumping, and in-plant process (onshore); (excluding production facilities).* (i) Buried piping installations should have a protective wrapping and coating and should be cathodically protected if soil conditions warrant. If a section of buried line is exposed for any reason, it should be carefully examined for deterioration. If corrosion damage is found, additional examination and corrective action should be taken as indicated by the magnitude of the damage. An alternative would be the more frequent use of exposed pipe corridors or galleries.

(ii) When a pipeline is not in service, or in standby service for an extended time the terminal connection at the transfer point should be capped or blank-flanged, and marked as to origin.

(iii) Pipe supports should be properly designed to minimize abrasion and corrosion and allow for expansion and contraction.

(iv) All aboveground valves and pipelines should be subjected to regular examinations by operating personnel at which time the general condition of items, such as flange joints, expansion joints, valve glands and bodies, catch pans, pipeline supports, locking of valves, and metal surfaces should be assessed. In addition, periodic pressure testing may be warranted for piping in areas where facility drainage is such that a failure might lead to a spill event.

(v) Vehicular traffic granted entry into the facility should be warned verbally or by appropriate signs to be sure that the vehicle, because of its size, will not endanger above ground piping.

(4) *Facility tank car and tank truck loading/unloading rack (onshore).* (i) Tank car and tank truck loading/unloading procedures should meet the minimum requirements and regulation established by the Department of Transportation.

(ii) Where rack area drainage does not flow into a catchment basin or treatment facility designed to handle spills, a quick drainage system should be used for tank truck loading and unloading areas. The containment system should be designed to hold at least maximum capacity of any single compartment of a tank car or tank truck loaded or unloaded in the plant.

(iii) An interlocked warning light or physical barrier system, or warning signs, should be provided in loading/unloading areas to prevent vehicular departure before complete disconnect of flexible or fixed transfer lines.

(iv) Prior to filling and departure of any tank car or tank truck, the lowermost drain and all outlets of such vehicles should be closely examined for leakage, and if necessary, tightened, adjusted, or replaced to prevent liquid leakage while in transit.

(5) *Oil production facilities (onshore)*— (i) *Definition.* An onshore production facility may include all wells, flowlines, separation equipment, storage facilities, gathering lines, and auxiliary non-transportation-related equipment and facilities in a single geographical oil or gas field operated by a single operator.

(ii) *Oil production facility (onshore) drainage.* (A) At tank batteries and central treating stations where an accidental discharge of oil would have a reasonable possibility of reaching navigable waters, the dikes or equivalent required under §112.7(c)(1) should have drains closed and sealed at all times except when rainwater is being drained. Prior to drainage, the diked area should be inspected as provided in paragraphs (e)(2)(iii) (B), (C), and (D) of this section. Accumulated oil on the rainwater should be picked up and returned to storage or disposed of in accordance with approved methods.

(B) Field drainage ditches, road ditches, and oil traps, sumps or skimmers, if such exist, should be inspected at regularly scheduled intervals for accumulation of oil that may have escaped from small leaks. Any such accumulations should be removed.

(iii) *Oil production facility (onshore) bulk storage tanks.* (A) No tank should be used for the storage of oil unless its material and construction are compatible with the material stored and the conditions of storage.

(B) All tank battery and central treating plant installations should be provided with a secondary means of containment for the entire contents of the largest single tank if feasible, or alternate systems such as those outlined in §112.7(c)(1). Drainage from undiked areas should be safely confined in a catchment basin or holding pond.

(C) All tanks containing oil should be visually examined by a competent person for condition and need for maintenance on a scheduled periodic basis. Such examination should include the foundation and supports of tanks that are above the surface of the ground.

(D) New and old tank battery installations should, as far as practical, be fail-safe engineered or updated into a fail-safe engineered installation to prevent spills. Consideration should be given to one or more of the following:

(*1*) Adequate tank capacity to assure that a tank will not overfill should a pumper/gauger be delayed in making his regular rounds.

(*2*) Overflow equalizing lines between tanks so that a full tank can overflow to an adjacent tank.

(*3*) Adequate vacuum protection to prevent tank collapse during a pipeline run.

(*4*) High level sensors to generate and transmit an alarm signal to the computer where facilities are a part of a computer production control system.

(iv) *Facility transfer operations, oil production facility (onshore).* (A) All above ground valves and pipelines should be examined periodically on a scheduled basis for general condition of items such as flange joints, valve glands and bodies, drip pans, pipeline supports, pumping well polish rod stuffing boxes, bleeder and gauge valves.

(B) Salt water (oil field brine) disposal facilities should be examined often, particularly following a sudden change in atmospheric temperature to detect possible system upsets that could cause an oil discharge.

(C) Production facilities should have a program of flowline maintenance to prevent spills from this source. The program should include periodic examinations, corrosion protection, flowline replacement, and adequate records, as appropriate, for the individual facility.

(6) *Oil drilling and workover facilities (onshore).* (i) Mobile drilling or workover equipment should be positioned or located so as to prevent spilled oil from reaching navigable waters.

(ii) Depending on the location, catchment basins or diversion structures may be necessary to intercept and contain spills of fuel, crude oil, or oily drilling fluids.

(iii) Before drilling below any casing string or during workover operations, a blowout prevention (BOP) assembly and well control system should be installed that is capable of controlling any well head pressure that is expected to be encountered while that BOP assembly is on the well. Casing and BOP installations should be in accordance

with State regulatory agency requirements.

(7) *Oil drilling, production, or workover facilities (offshore).* (i) Definition: "An oil drilling, production or workover facility (offshore)" may include all drilling or workover equipment, wells, flowlines, gathering lines, platforms, and auxiliary nontransportation-related equipment and facilities in a single geographical oil or gas field operated by a single operator.

(ii) Oil drainage collection equipment should be used to prevent and control small oil spillage around pumps, glands, valves, flanges, expansion joints, hoses, drain lines, separators, treaters, tanks, and allied equipment. Drains on the facility should be controlled and directed toward a central collection sump or equivalent collection system sufficient to prevent discharges of oil into the navigable waters of the United States. Where drains and sumps are not practicable oil contained in collection equipment should be removed as often as necessary to prevent overflow.

(iii) For facilities employing a sump system, sump and drains should be adequately sized and a spare pump or equivalent method should be available to remove liquid from the sump and assure that oil does not escape. A regular scheduled preventive maintenance inspection and testing program should be employed to assure reliable operation of the liquid removal system and pump start-up device. Redundant automatic sump pumps and control devices may be required on some installations.

(iv) In areas where separators and treaters are equipped with dump valves whose predominant mode of failure is in the closed position and pollution risk is high, the facility should be specially equipped to prevent the escape of oil. This could be accomplished by extending the flare line to a diked area if the separator is near shore, equipping it with a high liquid level sensor that will automatically shut-in wells producing to the separator, parallel redundant dump valves, or other feasible alternatives to prevent oil discharges.

(v) Atmospheric storage or surge tanks should be equipped with high liquid level sensing devices or other acceptable alternatives to prevent oil discharges.

(vi) Pressure tanks should be equipped with high and low pressure sensing devices to activate an alarm and/or control the flow or other acceptable alternatives to prevent oil discharges.

(vii) Tanks should be equipped with suitable corrosion protection.

(viii) A written procedure for inspecting and testing pollution prevention equipment and systems should be prepared and maintained at the facility. Such procedures should be included as part of the SPCC Plan.

(ix) Testing and inspection of the pollution prevention equipment and systems at the facility should be conducted by the owner or operator on a scheduled periodic basis commensurate with the complexity, conditions and circumstances of the facility or other appropriate regulations.

(x) Surface and subsurface well shut-in valves and devices in use at the facility should be sufficiently described to determine method of activation or control, e.g., pressure differential, change in fluid or flow conditions, combination of pressure and flow, manual or remote control mechanisms. Detailed records for each well, while not necessarily part of the plan should be kept by the owner or operator.

(xi) Before drilling below any casing string, and during workover operations a blowout preventer (BOP) assembly and well control system should be installed that is capable of controlling any well-head pressure that is expected to be encountered while that BOP assembly is on the well. Casing and BOP installations should be in accordance with State regulatory agency requirements.

(xii) Extraordinary well control measures should be provided should emergency conditions, including fire, loss of control and other abnormal conditions, occur. The degree of control system redundancy should vary with hazard exposure and probable consequences of failure. It is recommended that surface shut-in systems have redundant or "fail close" valving. Subsurface safety valves may not be needed in producing wells that will not flow but should be installed as required by applicable State regulations.

(xiii) In order that there will be no misunderstanding of joint and separate duties and obligations to perform work in a safe and pollution free manner, written instructions should be prepared by the owner or operator for contractors and subcontractors to follow whenever contract activities include servicing a well or systems appurtenant to a well or pressure vessel. Such instructions and procedures should be maintained at the offshore production facility. Under certain circumstances and conditions such contractor activities may require the presence at the facility of an authorized representative of the owner or operator who would intervene when necessary to prevent a spill event.

(xiv) All manifolds (headers) should be equipped with check valves on individual flowlines.

(xv) If the shut-in well pressure is greater than the working pressure of the flowline and manifold valves up to and including the header valves associated with that individual flowline, the flowline should be equipped with a high pressure sensing device and shut-in valve at the wellhead unless provided with a pressure relief system to prevent over pressuring.

(xvi) All pipelines appurtenant to the facility should be protected from corrosion. Methods used, such as protective coatings or cathodic protection, should be discussed.

(xvii) Sub-marine pipelines appurtenant to the facility should be adequately protected against environmental stresses and other activities such as fishing operations.

(xviii) Sub-marine pipelines appurtenant to the facility should be in good operating condition at all times and inspected on a scheduled periodic basis for failures. Such inspections should be documented and maintained at the facility.

(8) *Inspections and records.* Inspections required by this part should be in accordance with written procedures developed for the facility by the owner or operator. These written procedures and a record of the inspections, signed by the appropriate supervisor or inspector, should be made part of the SPCC Plan and maintained for a period of three years.

(9) *Security (excluding oil production facilities).* (i) All plants handling, processing, and storing oil should be fully fenced, and entrance gates should be locked and/or guarded when the plant is not in production or is unattended.

(ii) The master flow and drain valves and any other valves that will permit direct outward flow of the tank's content to the surface should be securely locked in the closed position when in non-operating or non-standby status.

(iii) The starter control on all oil pumps should be locked in the "off" position or located at a site accessible only to authorized personnel when the pumps are in a non-operating or non-standby status.

(iv) The loading/unloading connections of oil pipelines should be securely capped or blank-flanged when not in service or standby service for an extended time. This security practice should also apply to pipelines that are emptied of liquid content either by draining or by inert gas pressure.

(v) Facility lighting should be commensurate with the type and location of the facility. Consideration should be given to: (A) Discovery of spills occurring during hours of darkness, both by operating personnel, if present, and by non-operating personnel (the general public, local police, etc.) and (B) prevention of spills occurring through acts of vandalism.

(10) *Personnel, training and spill prevention procedures.* (i) Owners or operators are responsible for properly instructing their personnel in the operation and maintenance of equipment to prevent the discharges of oil and applicable pollution control laws, rules and regulations.

(ii) Each applicable facility should have a designated person who is accountable for oil spill prevention and who reports to line management.

(iii) Owners or operators should schedule and conduct spill prevention briefings for their operating personnel at intervals frequent enough to assure adequate understanding of the SPCC Plan for that facility. Such briefings should highlight and describe known spill events or failures, malfunctioning

components, and recently developed precautionary measures.

§ 112.20 Facility response plans.

(a) The owner or operator of any non-transportation-related onshore facility that, because of its location, could reasonably be expected to cause substantial harm to the environment by discharging oil into or on the navigable waters or adjoining shorelines shall prepare and submit a facility response plan to the Regional Administrator, according to the following provisions:

(1) For the owner or operator of a facility in operation on or before February 18, 1993 who is required to prepare and submit a response plan under 33 U.S.C. 1321(j)(5), the Oil Pollution Act of 1990 (Pub. L. 101-380, 33 U.S.C. 2701 *et seq.*) requires the submission of a response plan that satisfies the requirements of 33 U.S.C. 1321(j)(5) no later than February 18, 1993.

(i) The owner or operator of an existing facility that was in operation on or before February 18, 1993 who submitted a response plan by February 18, 1993 shall revise the response plan to satisfy the requirements of this section and resubmit the response plan or updated portions of the response plan to the Regional Administrator by February 18, 1995.

(ii) The owner or operator of an existing facility in operation on or before February 18, 1993 who failed to submit a response plan by February 18, 1993 shall prepare and submit a response plan that satisfies the requirements of this section to the Regional Administrator before August 30, 1994.

(2) The owner or operator of a facility in operation on or after August 30, 1994 that satisfies the criteria in paragraph (f)(1) of this section or that is notified by the Regional Administrator pursuant to paragraph (b) of this section shall prepare and submit a facility response plan that satisfies the requirements of this section to the Regional Administrator.

(i) For a facility that commenced operations after February 18, 1993 but prior to August 30, 1994, and is required to prepare and submit a response plan based on the criteria in paragraph (f)(1) of this section, the owner or operator shall submit the response plan or updated portions of the response plan, along with a completed version of the response plan cover sheet contained in Appendix F to this part, to the Regional Administrator prior to August 30, 1994.

(ii) For a newly constructed facility that commences operation after August 30, 1994, and is required to prepare and submit a response plan based on the criteria in paragraph (f)(1) of this section, the owner or operator shall submit the response plan, along with a completed version of the response plan cover sheet contained in Appendix F to this part, to the Regional Administrator prior to the start of operations (adjustments to the response plan to reflect changes that occur at the facility during the start-up phase of operations must be submitted to the Regional Administrator after an operational trial period of 60 days).

(iii) For a facility required to prepare and submit a response plan after August 30, 1994, as a result of a planned change in design, construction, operation, or maintenance that renders the facility subject to the criteria in paragraph (f)(1) of this section, the owner or operator shall submit the response plan, along with a completed version of the response plan cover sheet contained in Appendix F to this part, to the Regional Administrator before the portion of the facility undergoing change commences operations (adjustments to the response plan to reflect changes that occur at the facility during the start-up phase of operations must be submitted to the Regional Administrator after an operational trial period of 60 days).

(iv) For a facility required to prepare and submit a response plan after August 30, 1994, as a result of an unplanned event or change in facility characteristics that renders the facility subject to the criteria in paragraph (f)(1) of this section, the owner or operator shall submit the response plan, along with a completed version of the response plan cover sheet contained in Appendix F to this part, to the Regional Administrator within six months of the unplanned event or change.

(3) In the event the owner or operator of a facility that is required to prepare and submit a response plan uses an alternative formula that is comparable to one contained in Appendix C to this part to evaluate the criterion in paragraph (f)(1)(ii)(B) or (f)(1)(ii)(C) of this section, the owner or operator shall attach documentation to the response plan cover sheet contained in Appendix F to this part that demonstrates the reliability and analytical soundness of the alternative formula.

(b)(1) The Regional Administrator may at any time require the owner or operator of any non-transportation-related onshore facility to prepare and submit a facility response plan under this section after considering the factors in paragraph (f)(2) of this section. If such a determination is made, the Regional Administrator shall notify the facility owner or operator in writing and shall provide a basis for the determination. If the Regional Administrator notifies the owner or operator in writing of the requirement to prepare and submit a response plan under this section, the owner or operator of the facility shall submit the response plan to the Regional Administrator within six months of receipt of such written notification.

(2) The Regional Administrator shall review plans submitted by such facilities to determine whether the facility could, because of its location, reasonably be expected to cause significant and substantial harm to the environment by discharging oil into or on the navigable waters or adjoining shorelines.

(c) The Regional Administrator shall determine whether a facility could, because of its location, reasonably be expected to cause significant and substantial harm to the environment by discharging oil into or on the navigable waters or adjoining shorelines, based on the factors in paragraph (f)(3) of this section. If such a determination is made, the Regional Administrator shall notify the owner or operator of the facility in writing and:

(1) Promptly review the facility response plan;

(2) Require amendments to any response plan that does not meet the requirements of this section;

(3) Approve any response plan that meets the requirements of this section; and

(4) Review each response plan periodically thereafter on a schedule established by the Regional Administrator provided that the period between plan reviews does not exceed five years.

(d)(1) The owner or operator of a facility for which a response plan is required under this part shall revise and resubmit revised portions of the response plan within 60 days of each facility change that materially may affect the response to a worst case discharge, including:

(i) A change in the facility's configuration that materially alters the information included in the response plan;

(ii) A change in the type of oil handled, stored, or transferred that materially alters the required response resources;

(iii) A material change in capabilities of the oil spill removal organization(s) that provide equipment and personnel to respond to discharges of oil described in paragraph (h)(5) of this section;

(iv) A material change in the facility's spill prevention and response equipment or emergency response procedures; and

(v) Any other changes that materially affect the implementation of the response plan.

(2) Except as provided in paragraph (d)(1) of this section, amendments to personnel and telephone number lists included in the response plan and a change in the oil spill removal organization(s) that does not result in a material change in support capabilities do not require approval by the Regional Administrator. Facility owners or operators shall provide a copy of such changes to the Regional Administrator as the revisions occur.

(3) The owner or operator of a facility that submits changes to a response plan as provided in paragraph (d)(1) or (d)(2) of this section shall provide the EPA-issued facility identification number (where one has been assigned) with the changes.

(4) The Regional Administrator shall review for approval changes to a response plan submitted pursuant to paragraph (d)(1) of this section for a fa-

Appendix M

Glossary

GLOSSARY

Abbreviations:

AR	-Army Regulation
AST	-Above Ground Storage Tank
CAA	-Clean Air Act
CERCLA	-Comprehensive Environmental Response, Compensation, Liability Act
CFR	-Code of Federal Regulations
CWA	-Clean Water Act
DEC	-Department of Environmental Conservation
DLA	-Defense Logistics Agency
DoD	-Department of Defense
ECC	-Environmental Compliance Coordinator
EM	-Engineering Manual
EO	-Executive Order
EPA	-Environmental Protection Agency
EPCRA	-Emergency Planning and Community Right-to-Know Act
ERGO	-Environmental Review Guide for Operations
FY	-Fiscal Year
GSA	-General Services Administration
MEK	-Methyl Ethyl Ketone
MSDS	-Material Safety Data Sheets
NED	-New England Division
NFPA	-National Fire Protection Association
NGVD	-National Geodetic Vertical Datum

P2	-Pollution Prevention
PCBs	-Polychlorinated Biphenols
RCRA	-Resource, Conservation, and Recovery Act
RQ	-Reportable Quantity
SCP	-Spill Contingency Plan
SPCCP	-Spill Prevention, Control, and Countermeasure Plan
TRI	-Toxics Release Inventory
USACE	-U.S. Army Corps of Engineers
UST	-Underground Storage Tank
VOCs	-Volatile Organic Compounds
VT	-Vermont

Terms:

Disposal: The discharge, deposit, injection, dumping, spilling, leaking, or placing of any solid waste or hazardous waste into or on any land or water so that such waste (or any constituent thereof) may enter the environment or be emitted into the air or discharged into any waters, including groundwater.

Environment: Any one of the following: navigable waters, near-shore and open waters and any surface waters, groundwater, drinking water supply, land surface or subsurface area, and ambient air.

Hazardous Waste: The Resource Conservation and Recovery Act (RCRA) defines hazardous waste as a solid waste (including liquids and gases), or a combination or solid wastes which may, because of its quantity, concentration, or physical, chemical, or infectious characteristics:

a. cause or significantly contribute to an increase in mortality or in serious irreversible, or incapacitating illness; or

b. pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, disposed of, or otherwise managed.

Certain types of solid wastes are excluded from regulation as hazardous waste. See 40 CFR 261.4 for the complete listing of exclusions.

Hazardous Substance: For the purpose of this plan, a hazardous substance is any one of the following:

a. Any substance designated pursuant to Section 311 (b) (2) (A) of the CWA.

b. Any element, compound, mixture, solution, or substance designated pursuant to Section 102 or 101 (14) of the CERCLA (see Appendix D3)

c. Any hazardous air pollutant under Section 112 of the CAA.

The term does not include (1) petroleum, including crude oil or any fraction thereof, which is not specifically listed or designated as a hazardous substance in the above definition; or (2) natural gas, natural gas liquids, liquified natural gas, or synthetic gas used for fuel (or mixtures of natural gas and such synthetic gas).

Manifest: The shipping document EPA Form 8700-22, and if necessary, EPA Form 8700-22A, originated, signed, and distributed in accordance with the instructions supplied with the manifest form and applicable state requirements.

National Geodetic Vertical Datum: Formerly called "Sea Level Datum of 1929," the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, but it does not necessarily represent local mean sea level at any particular place.

Oil: Oil of any kind or in any form, including but not limited to, petroleum, fuel oil, sludge, oil refuse, and oil mixed with wastes other than dredged spoil.

Reportable Concentration: The threshold (minimum) concentration in soil or groundwater which requires notification to the DEP.

Reportable Quantity: The threshold (minimum) quantity for a CERCLA hazardous substance spill established in Table 302.4 of 40 CFR part 302.

Secondary Containment: Any measure which will retain a spill of the entire contents of the primary container for a sufficient

period so that it can be collected or removed without contaminating the environment. Containment must be sufficiently impermeable to contain any spilled material and is normally sized for additional freeboard to allow for precipitation. Any spill that would occur on an impervious surface (e.g. concrete floor or bituminous parking lot) that did not contaminate the environment would be within secondary containment. Secondary containment includes basins, berms, catchment areas, curbing, dikes, drip pans, relief vessels, retaining walls, vaults, and similar devices.

Sheen: An iridescent appearance on the surface of water, normally caused by the presence of oil.

Solid Waste: Waste that includes garbage, refuse, and sludge as well as any solid, semi-solid, liquid, or contained gaseous material that is discarded. A discarded material is one that has been determined to be an inherently waste-like material by the EPA Administrator. Under certain circumstances, recycled materials are considered discarded materials (and therefore solid wastes) if they are used in a manner constituting disposal, burned for energy recovery, reclaimed, or accumulated speculatively. Certain wastes are excluded from being classified as solid wastes. See 40 CFR 261.2 for wastes that are excluded.

Spill: A generic term which encompasses the accidental or deliberate but unpermitted discharge or release of a pollutant.

Appendix N

References

REFERENCES

Title 29, CFR, 1994 rev, Part 1910.106; Flammable and Combustable Liquids

Title 40, CFR, 1994 rev, Part 112; Oil Pollution Prevention

Title 40, CFR, 1994 rev, Part 114; Civil Penalties for Violation of Oil Pollution Prevention Regulations

Title 40, CFR, 1994 rev, Part 116; Designation of Hazardous Substances

Title 40, CFR, 1994 rev, Part 117; Determination of Reportable Quantities for Hazardous Substances

Title 40, CFR, 1994 rev, Part 300; National Oil and Hazardous Substances Pollution Contingency Plan

Title 40, CFR, 1994 rev, Part 302; Designation, Reportable Quantities, and Notification

Title 40, CFR, 1994 rev, Part 355; Emergency Planning and Notification

Title 40, CFR, 1994 rev, Part 372; Toxic Chemical Release Reporting: Community Right-To-Know

Title 310, CMR, 1995 rev, Part 30.253; Genertor Standards Governing Waste Oil and Used Oil Fuel

Title 310, CMR 1995 rev, Part 40; Hazardous Waste Regulations

EM 385-1-1, October 1992, Safety and Health Requirements Manual

AR 200-1, April 1990; Environmental Protection Enhancement

Executive Order 12856, August 3, 1993, Federal Compliance and Right-to-Know Laws and Pollution Prevention Requirements

NFPA 30, 1990 Edition, Flammable and Combustible Liquids Code

Appendix O

Amendments/Changes to P2 Plan